

Models with year

2022-10-05

Seed number

Visitation rate (all pollinators)

we analyse whether the visitation rate of all pollinators, years and their interaction affect to the seed number for each plant species

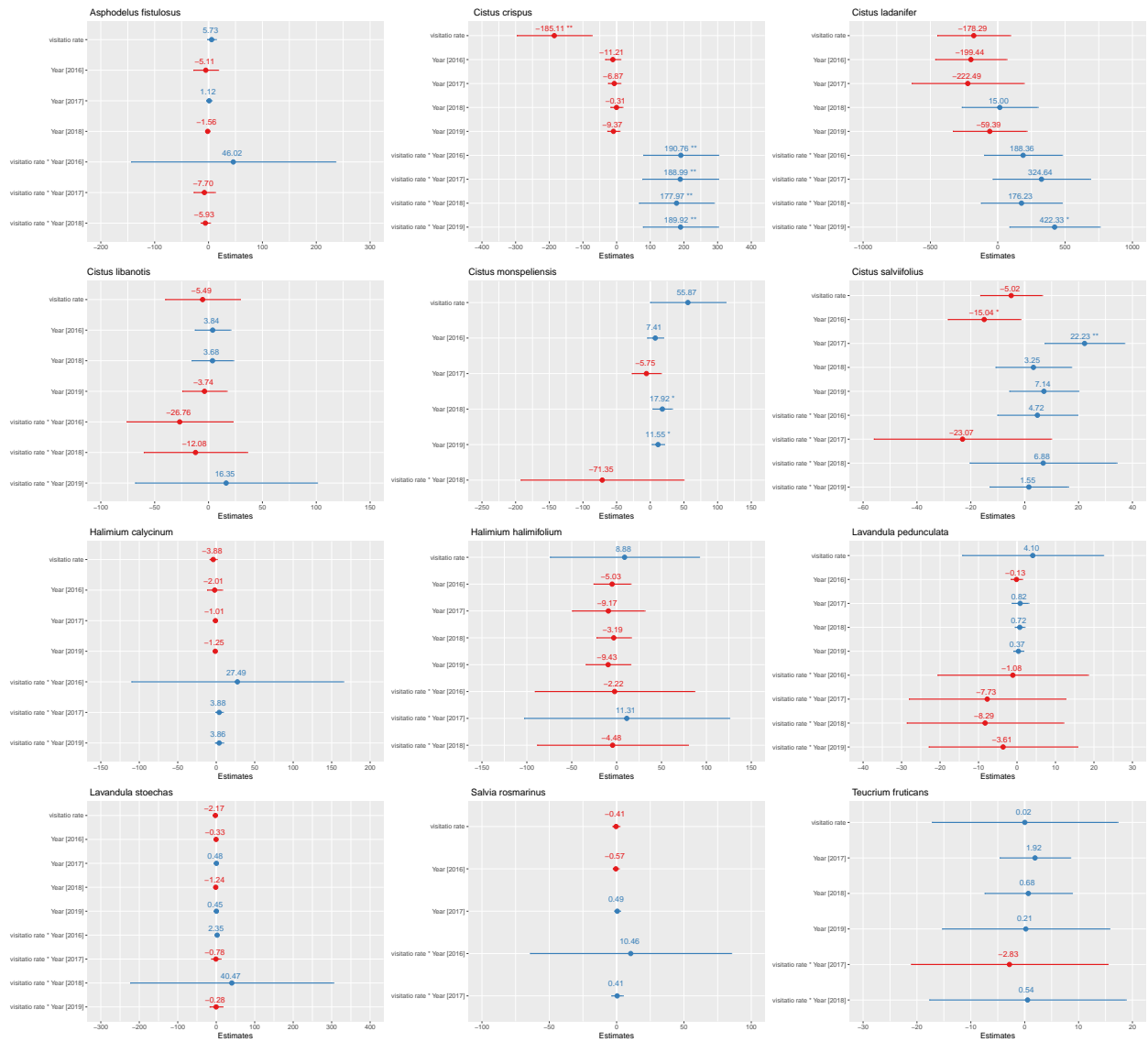
A- linear model: `lm(Seeds~visitatio_rate * Year)`

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	3.0260	0.8088	3.7411	0.0073
	visitatio_rate	5.7266	3.4085	1.6801	0.1368
	Year2016	-5.1093	9.7394	-0.5246	0.6161
	Year2017	1.1217	2.1216	0.5287	0.6133
	Year2018	-1.5567	1.3826	-1.1259	0.2973
	visitatio_rate:Year2016	46.0234	80.1800	0.5740	0.5839
	visitatio_rate:Year2017	-7.6997	8.3435	-0.9228	0.3868
	visitatio_rate:Year2018	-5.9262	3.6989	-1.6021	0.1532
Cistus crispus	(Intercept)	39.6667	8.4181	4.7121	0.0000
	visitatio_rate	-185.1111	55.5567	-3.3319	0.0015
	Year2016	-11.2113	11.2820	-0.9937	0.3243
	Year2017	-6.8728	9.1650	-0.7499	0.4563
	Year2018	-0.3055	8.8115	-0.0347	0.9725
	Year2019	-9.3712	9.0665	-1.0336	0.3055
	visitatio_rate:Year2016	190.7614	55.7606	3.4211	0.0011
	visitatio_rate:Year2017	188.9941	56.4155	3.3500	0.0014
	visitatio_rate:Year2018	177.9735	55.6309	3.1992	0.0022
	visitatio_rate:Year2019	189.9160	55.7932	3.4039	0.0012
Cistus ladanifer	(Intercept)	488.2839	97.7329	4.9961	0.0000
	visitatio_rate	-178.2900	134.3129	-1.3274	0.1914
	Year2016	-199.4426	131.2333	-1.5198	0.1359
	Year2017	-222.4937	206.3065	-1.0785	0.2868
	Year2018	14.9977	139.7125	0.1073	0.9150
	Year2019	-59.3937	135.8342	-0.4373	0.6641
	visitatio_rate:Year2016	188.3636	143.5834	1.3119	0.1965
	visitatio_rate:Year2017	324.6391	179.2934	1.8107	0.0772
	visitatio_rate:Year2018	176.2307	149.0566	1.1823	0.2436
	visitatio_rate:Year2019	422.3346	166.3031	2.5395	0.0148
Cistus libanotis	(Intercept)	17.4970	5.3569	3.2662	0.0114
	visitatio_rate	-5.4939	15.0639	-0.3647	0.7248
	Year2016	3.8364	7.1596	0.5358	0.6066
	Year2018	3.6808	8.3756	0.4395	0.6720
	Year2019	-3.7393	8.9443	-0.4181	0.6869
	visitatio_rate:Year2016	-26.7561	21.3396	-1.2538	0.2453

Cistus monspeliensis	visitatio_rate:Year2018	-12.0825	20.8164	-0.5804	0.5776
	visitatio_rate:Year2019	16.3481	36.6178	0.4465	0.6671
	(Intercept)	-2.1936	3.6982	-0.5932	0.5850
	visitatio_rate	55.8703	20.1663	2.7705	0.0503
	Year2016	7.4109	4.2947	1.7256	0.1595
	Year2017	-5.7508	7.7695	-0.7402	0.5003
	Year2018	17.9181	5.1863	3.4549	0.0259
	Year2019	11.5483	3.3042	3.4951	0.0250
	visitatio_rate:Year2016	NA	NA	NA	NA
	visitatio_rate:Year2017	NA	NA	NA	NA
Cistus salviifolius	visitatio_rate:Year2018	-71.3462	43.5548	-1.6381	0.1767
	visitatio_rate:Year2019	NA	NA	NA	NA
	(Intercept)	37.5365	4.6845	8.0130	0.0000
	visitatio_rate	-5.0199	5.7298	-0.8761	0.3847
	Year2016	-15.0376	6.7203	-2.2376	0.0292
	Year2017	22.2334	7.3821	3.0118	0.0039
	Year2018	3.2469	7.0129	0.4630	0.6452
	Year2019	7.1414	6.4051	1.1149	0.2696
	visitatio_rate:Year2016	4.7236	7.4177	0.6368	0.5268
	visitatio_rate:Year2017	-23.0746	16.4328	-1.4042	0.1658
Halimium calycinum	visitatio_rate:Year2018	6.8757	13.6064	0.5053	0.6153
	visitatio_rate:Year2019	1.5547	7.2712	0.2138	0.8315
	(Intercept)	3.6192	0.6195	5.8418	0.0001
	visitatio_rate	-3.8773	2.1328	-1.8180	0.0964
	Year2016	-2.0081	4.4315	-0.4531	0.6593
	Year2017	-1.0074	0.9338	-1.0788	0.3038
	Year2019	-1.2481	0.7373	-1.6928	0.1186
	visitatio_rate:Year2016	27.4884	62.5295	0.4396	0.6687
	visitatio_rate:Year2017	3.8764	2.2021	1.7603	0.1061
	visitatio_rate:Year2019	3.8587	2.4148	1.5979	0.1384
Halimium halimifolium	(Intercept)	22.6667	9.0536	2.5036	0.0170
	visitatio_rate	8.8803	40.9521	0.2168	0.8296
	Year2016	-5.0326	10.1786	-0.4944	0.6240
	Year2017	-9.1667	19.9041	-0.4605	0.6479
	Year2018	-3.1865	9.4552	-0.3370	0.7381
	Year2019	-9.4292	12.2528	-0.7696	0.4466
	visitatio_rate:Year2016	-2.2240	43.7919	-0.0508	0.9598
	visitatio_rate:Year2017	11.3102	56.3551	0.2007	0.8421
	visitatio_rate:Year2018	-4.4799	41.4147	-0.1082	0.9145
	visitatio_rate:Year2019	NA	NA	NA	NA
Lavandula pedunculata	(Intercept)	1.8146	0.5213	3.4811	0.0012
	visitatio_rate	4.0965	9.0590	0.4522	0.6536
	Year2016	-0.1336	0.7264	-0.1839	0.8551
	Year2017	0.8188	1.0654	0.7685	0.4468
	Year2018	0.7180	0.6237	1.1512	0.2566
	Year2019	0.3668	0.6423	0.5712	0.5712
	visitatio_rate:Year2016	-1.0835	9.6658	-0.1121	0.9113
	visitatio_rate:Year2017	-7.7336	10.0598	-0.7688	0.4467
	visitatio_rate:Year2018	-8.2855	10.0608	-0.8235	0.4152
	visitatio_rate:Year2019	-3.6094	9.5531	-0.3778	0.7076
Lavandula stoechas	(Intercept)	2.4225	0.4088	5.9264	0.0000
	visitatio_rate	-2.1661	1.5124	-1.4322	0.1740
	Year2016	-0.3318	0.5379	-0.6169	0.5472
	Year2017	0.4834	0.7556	0.6398	0.5327

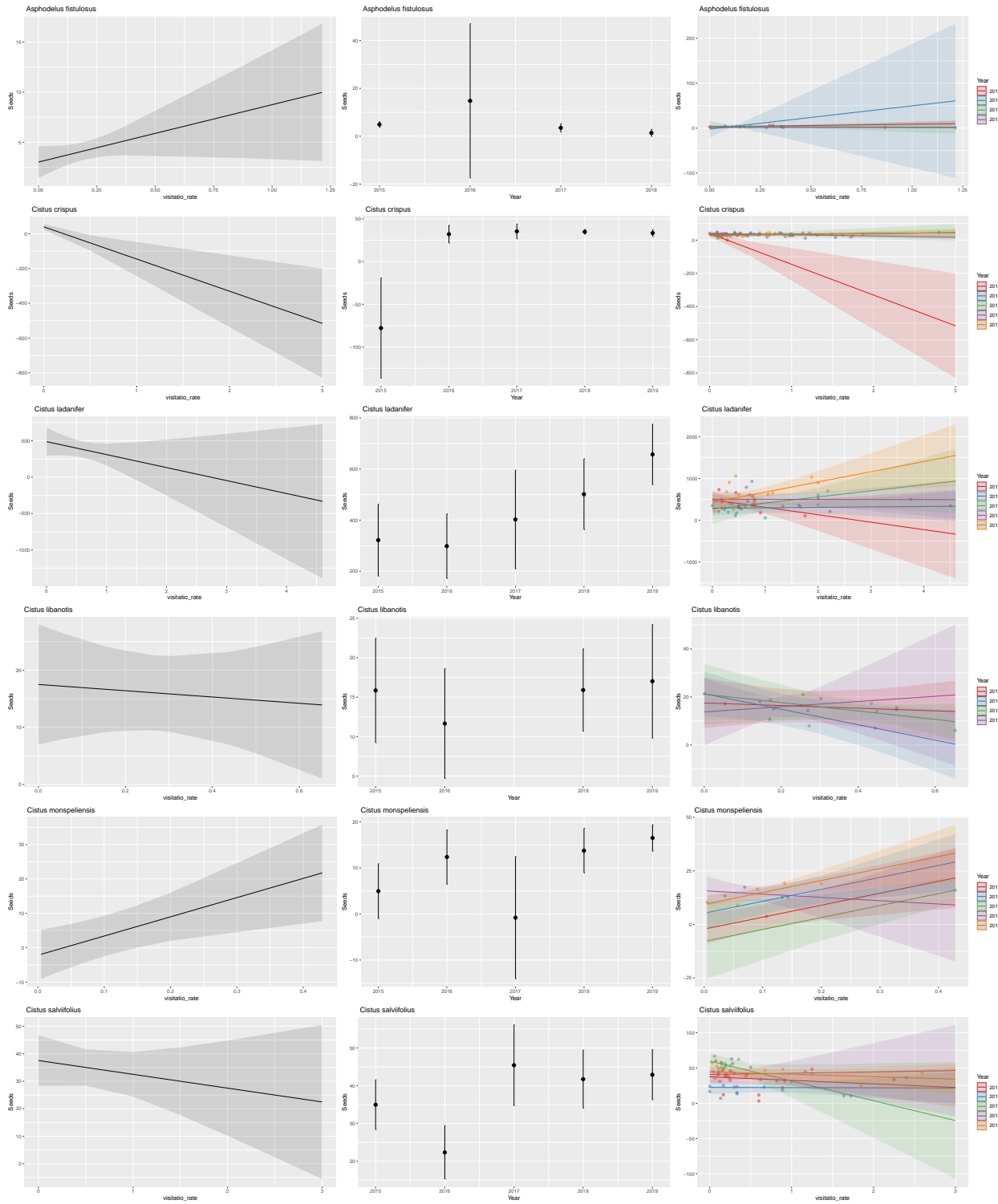
Salvia rosmarinus	Year2018	-1.2410	1.0444	-1.1882	0.2545
	Year2019	0.4535	1.1763	0.3855	0.7056
	visitatio_rate:Year2016	2.3508	1.5737	1.4938	0.1574
	visitatio_rate:Year2017	-0.7832	5.6295	-0.1391	0.8913
	visitatio_rate:Year2018	40.4747	123.0223	0.3290	0.7470
	visitatio_rate:Year2019	-0.2801	7.8057	-0.0359	0.9719
	(Intercept)	2.5116	0.3234	7.7651	0.0001
	visitatio_rate	-0.4070	1.0878	-0.3741	0.7194
	Year2016	-0.5731	0.9439	-0.6071	0.5630
	Year2017	0.4884	0.9128	0.5351	0.6092
Teucrium fruticans	visitatio_rate:Year2016	10.4627	31.5853	0.3313	0.7501
	visitatio_rate:Year2017	0.4070	1.7866	0.2278	0.8263
	(Intercept)	2.3309	1.8735	1.2442	0.2814
	visitatio_rate	0.0184	6.2045	0.0030	0.9978
	Year2017	1.9173	2.3583	0.8130	0.4618
	Year2018	0.6776	2.9201	0.2320	0.8279
	Year2019	0.2067	5.5916	0.0370	0.9723
	visitatio_rate:Year2017	-2.8288	6.5718	-0.4304	0.6890
	visitatio_rate:Year2018	0.5354	6.5679	0.0815	0.9389
	visitatio_rate:Year2019	NA	NA	NA	NA

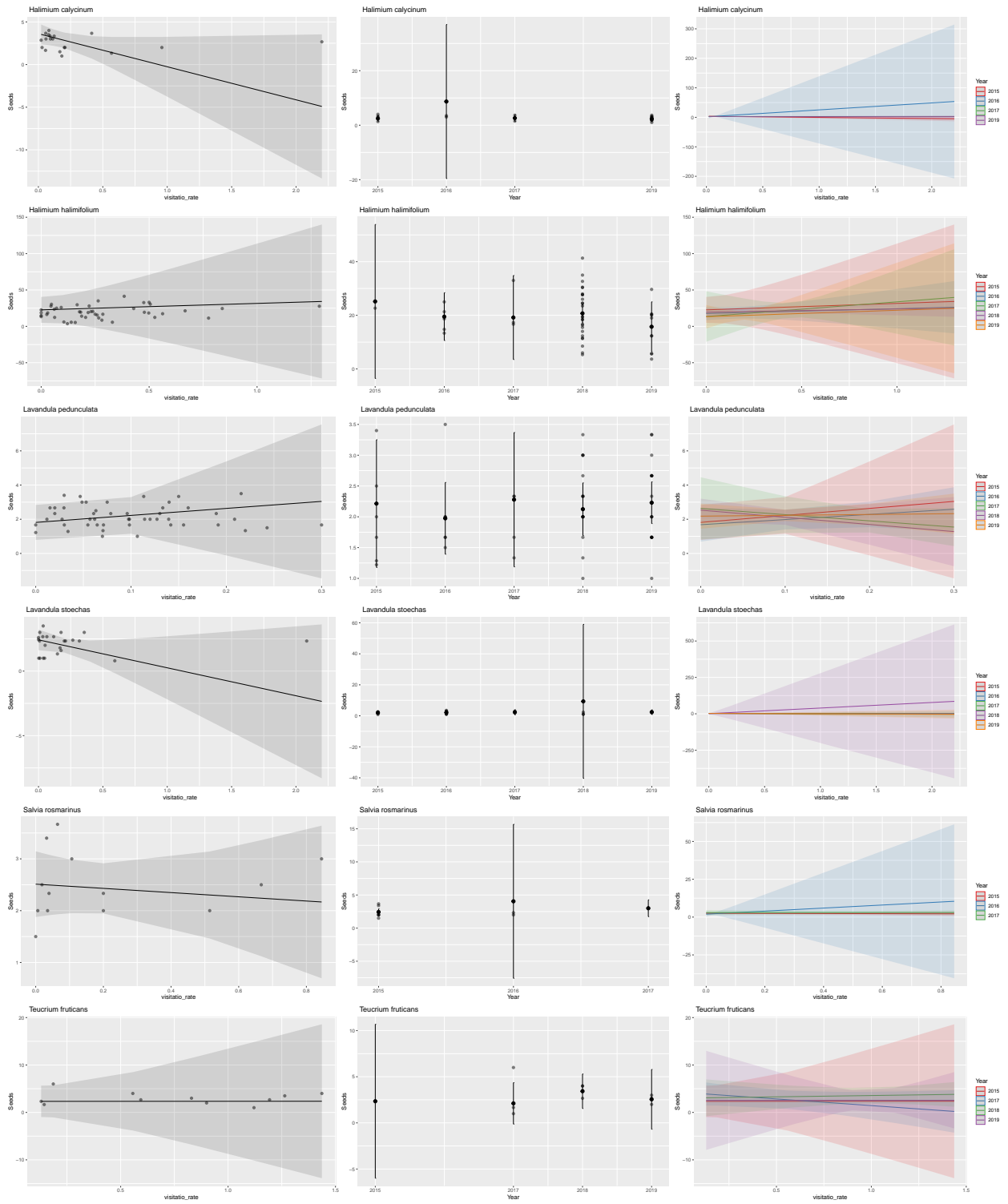
Plant_gen_sp	r.squared	adj.r.squared	sigma	statistic	p.value	df	logLik	AIC	BIC	deviance	df.residual	nobs
A.fistulosus	0.755	0.509	1.095	3.075	0.081	7	-16.924	51.847	58.220	8.387	7	15
C.crispus	0.298	0.193	8.418	2.833	0.008	9	-243.057	508.115	532.848	4251.877	60	70
C.ladanifer	0.370	0.238	208.694	2.804	0.011	9	-352.729	727.458	749.131	1872792.392	43	53
C.libanotis	0.472	0.011	4.750	1.023	0.481	7	-42.089	102.177	109.130	180.509	8	16
C.monspelienensis	0.836	0.589	3.012	3.389	0.129	6	-22.175	60.349	63.532	36.298	4	11
C.salviifolius	0.430	0.338	12.503	4.688	0.000	9	-254.941	531.882	555.968	8753.969	56	66
H.calycinum	0.329	-0.098	0.936	0.771	0.624	7	-20.506	59.013	67.513	9.632	11	19
H.halimifolium	0.116	-0.081	9.054	0.589	0.781	8	-157.974	335.947	354.014	2950.816	36	45
L.pedunculata	0.093	-0.116	0.694	0.445	0.902	9	-46.043	114.086	134.896	18.789	39	49
L.stoechas	0.347	-0.073	0.795	0.825	0.604	9	-22.069	66.138	79.096	8.840	14	24
S.rosmarinus	0.188	-0.392	0.740	0.325	0.883	5	-10.506	35.013	38.968	3.832	7	13
T.fruticans	0.388	-0.530	1.691	0.422	0.835	6	-15.826	47.651	50.834	11.443	4	11



Predict values of seed number

Cistus monspeliensis - *Halimium halimifolium* - *Teucrium fruticans* Warning message: In predict.lm(model, newdata = fitfram, type = "response", se.fit = se,): prediction from a rank-deficient fit may be misleading





Importante: *Cistus crispus* en 2015 solo tiene dos valores, uno con 0 semillas y visitation rate 0.214; y otro con casi 40 semillas y visitation rate 0

Predicted values of Seeds for *Cistus crispus* **Nota:** Cistus crispus en 2015 solo tiene dos valores, uno con 0 semillas y visitation rate 0.214; y otro con casi 40 semillas y visitation rate 0

```
## # Predicted values of Seeds
##
## # Year = 2015
##
## visitatio_rate | Predicted | group_col |          95% CI
## -----
##          0.00 |    39.67 |      2015 | [ 23.17,  56.17]
##          0.50 |   -52.89 |      2015 | [-97.23,  -8.55]
##          1.00 |  -145.44 |      2015 | [-243.36, -47.52]
##          2.00 |  -330.56 |      2015 | [-537.00, -124.11]
##          3.00 |  -515.67 |      2015 | [-830.88, -200.45]
##
## # Year = 2016
##
## visitatio_rate | Predicted | group_col |          95% CI
## -----
##          0.00 |    28.46 |      2016 | [13.73, 43.18]
##          0.50 |    31.28 |      2016 | [20.11, 42.45]
##          1.00 |    34.11 |      2016 | [25.38, 42.84]
##          2.00 |    39.76 |      2016 | [29.26, 50.25]
##          3.00 |    45.41 |      2016 | [27.56, 63.25]
##
## # Year = 2017
##
## visitatio_rate | Predicted | group_col |          95% CI
## -----
##          0.00 |    32.79 |      2017 | [25.69, 39.90]
##          0.50 |    34.74 |      2017 | [28.00, 41.47]
##          1.00 |    36.68 |      2017 | [21.68, 51.68]
##          2.00 |    40.56 |      2017 | [ 6.82, 74.30]
##          3.00 |    44.44 |      2017 | [-8.38, 97.27]
##
## # Year = 2018
##
## visitatio_rate | Predicted | group_col |          95% CI
## -----
##          0.00 |    39.36 |      2018 | [34.26, 44.46]
##          0.50 |    35.79 |      2018 | [32.65, 38.94]
##          1.00 |    32.22 |      2018 | [29.12, 35.32]
##          2.00 |    25.09 |      2018 | [17.57, 32.61]
##          3.00 |    17.95 |      2018 | [ 5.03, 30.87]
##
## # Year = 2019
##
## visitatio_rate | Predicted | group_col |          95% CI
## -----
##          0.00 |    30.30 |      2019 | [23.70, 36.89]
##          0.50 |    32.70 |      2019 | [28.80, 36.60]
##          1.00 |    35.10 |      2019 | [28.98, 41.22]
##          2.00 |    39.91 |      2019 | [24.62, 55.19]
##          3.00 |    44.71 |      2019 | [19.57, 69.85]
```

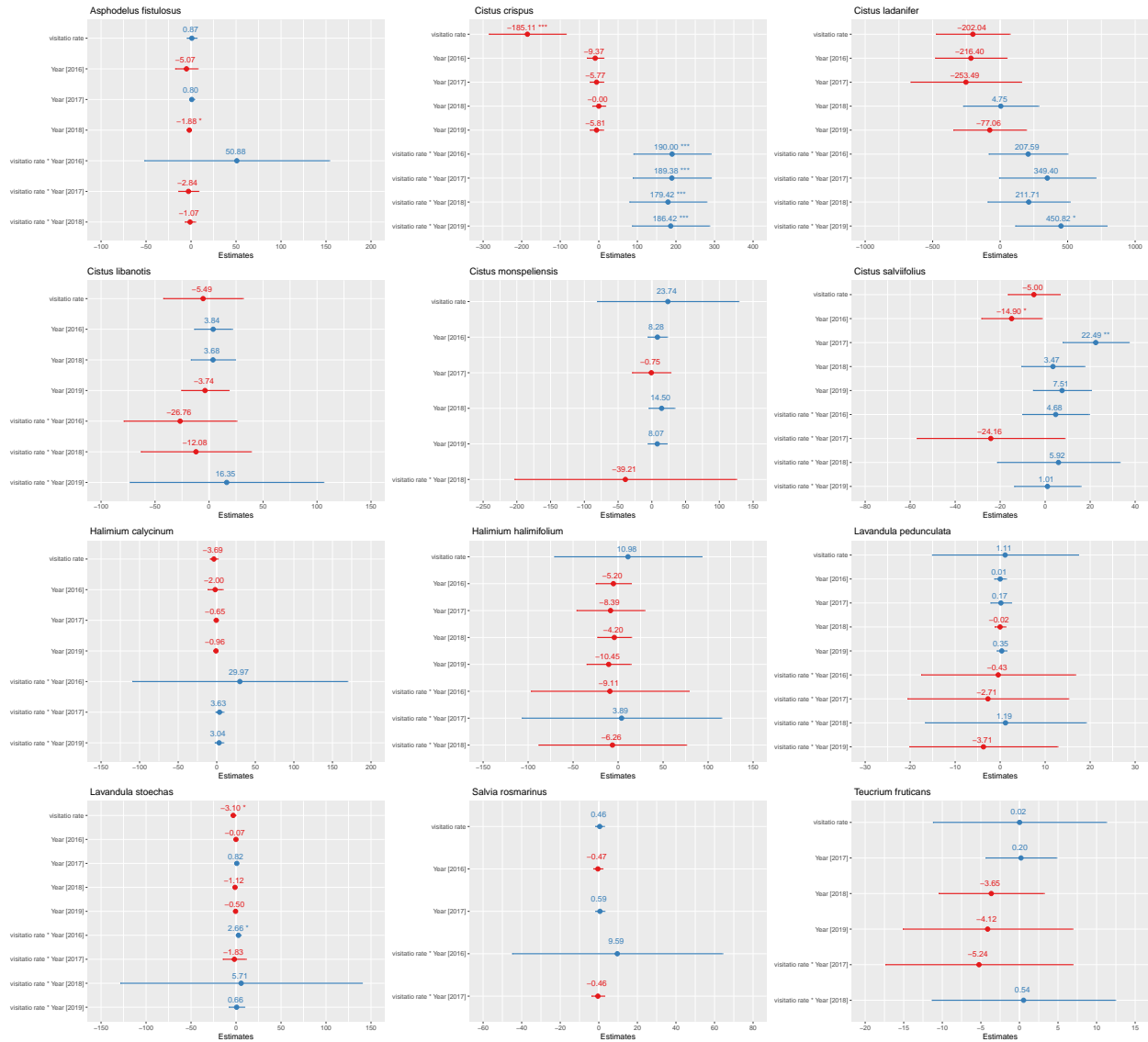
B- linear mixed model with site ID like random factor

Plant_gen_sp	term	estimate	std.error	statistic	df	p.value
Asphodelus fistulosus	(Intercept)	3.9867	0.9816	4.0613	2.7281	0.0322
	visitatio_rate	0.8699	2.1003	0.4142	5.3231	0.6949
	Year2016	-5.0681	4.8618	-1.0424	4.9587	0.3453
	Year2017	0.7983	1.0758	0.7421	4.9799	0.4915
	Year2018	-1.8801	0.7179	-2.6190	5.0113	0.0471
	visitatio_rate:Year2016	50.8801	39.9427	1.2738	4.9557	0.2592
	visitatio_rate:Year2017	-2.8430	4.3347	-0.6559	5.0408	0.5407
	visitatio_rate:Year2018	-1.0695	2.2188	-0.4820	5.2847	0.6491
Cistus crispus	(Intercept)	38.1260	7.9811	4.7771	58.6611	0.0000
	visitatio_rate	-185.1111	49.7756	-3.7189	51.4578	0.0005
	Year2016	-9.3655	10.7357	-0.8724	57.7596	0.3866
	Year2017	-5.7745	8.6907	-0.6645	56.9236	0.5091
	Year2018	-0.0037	8.4141	-0.0004	58.1708	0.9996
	Year2019	-5.8090	8.5338	-0.6807	56.5567	0.4988
	visitatio_rate:Year2016	189.9997	49.9770	3.8017	51.5015	0.0004
	visitatio_rate:Year2017	189.3804	50.6287	3.7406	51.6575	0.0005
Cistus ladanifer	visitatio_rate:Year2018	179.4184	49.8598	3.5985	51.5170	0.0007
	visitatio_rate:Year2019	186.4220	50.0279	3.7264	51.5717	0.0005
	(Intercept)	500.9859	100.3306	4.9934	35.4590	0.0000
	visitatio_rate	-202.0376	135.0967	-1.4955	42.5179	0.1422
	Year2016	-216.4031	131.0365	-1.6515	42.9605	0.1059
	Year2017	-253.4854	202.5414	-1.2515	41.1179	0.2178
	Year2018	4.7536	137.8730	0.0345	41.5590	0.9727
	Year2019	-77.0605	133.3194	-0.5780	41.0196	0.5664
Cistus libanotis	visitatio_rate:Year2016	207.5878	144.4254	1.4373	42.3271	0.1580
	visitatio_rate:Year2017	349.3974	176.9258	1.9748	42.1480	0.0549
	visitatio_rate:Year2018	211.7102	150.4242	1.4074	42.2256	0.1666
	visitatio_rate:Year2019	450.8164	167.5613	2.6905	42.2880	0.0102
	(Intercept)	17.4970	5.3569	3.2662	8.0000	0.0114
	visitatio_rate	-5.4939	15.0639	-0.3647	8.0000	0.7248
	Year2016	3.8364	7.1596	0.5358	8.0000	0.6066
	Year2018	3.6808	8.3756	0.4395	8.0000	0.6720
Cistus monspeliensis	Year2019	-3.7393	8.9443	-0.4181	8.0000	0.6869
	visitatio_rate:Year2016	-26.7561	21.3396	-1.2538	8.0000	0.2453
	visitatio_rate:Year2018	-12.0825	20.8164	-0.5804	8.0000	0.5776
	visitatio_rate:Year2019	16.3481	36.6178	0.4465	8.0000	0.6671
	(Intercept)	3.9006	5.5133	0.7075	2.5747	0.5379
	visitatio_rate	23.7371	24.3430	0.9751	3.9625	0.3852
	Year2016	8.2769	3.3104	2.5002	3.0490	0.0863
	Year2017	-0.7494	6.6075	-0.1134	3.4015	0.9161
Cistus salviifolius	Year2018	14.4997	4.4318	3.2718	3.4162	0.0387
	Year2019	8.0699	3.2423	2.4889	3.7463	0.0718
	visitatio_rate:Year2018	-39.2130	38.1729	-1.0272	3.4904	0.3701
	(Intercept)	37.3935	4.7400	7.8889	45.6349	0.0000
	visitatio_rate	-5.0033	5.7436	-0.8711	55.3932	0.3874
	Year2016	-14.8984	6.6957	-2.2251	55.1358	0.0302
	Year2017	22.4925	7.3352	3.0664	53.3544	0.0034
	Year2018	3.4665	6.9810	0.4966	54.5012	0.6215
	Year2019	7.5113	6.4240	1.1692	55.5450	0.2473
	visitatio_rate:Year2016	4.6832	7.3898	0.6337	54.8453	0.5289

Halimium calycinum	visitatio_rate:Year2017	-24.1576	16.3820	-1.4746	55.5882	0.1460
	visitatio_rate:Year2018	5.9201	13.5869	0.4357	55.8005	0.6647
	visitatio_rate:Year2019	1.0121	7.3564	0.1376	48.5485	0.8911
	(Intercept)	3.5096	0.6697	5.2408	6.8231	0.0013
	visitatio_rate	-3.6865	2.2255	-1.6565	7.9760	0.1363
	Year2016	-2.0030	4.3160	-0.4641	9.8673	0.6527
	Year2017	-0.6523	0.9554	-0.6828	10.6180	0.5094
	Year2019	-0.9632	0.7516	-1.2816	10.6255	0.2272
	visitatio_rate:Year2016	29.9670	61.6213	0.4863	10.4010	0.6368
	visitatio_rate:Year2017	3.6268	2.2814	1.5898	8.4840	0.1484
Halimium halimifolium	visitatio_rate:Year2019	3.0430	2.4682	1.2329	9.5829	0.2470
	(Intercept)	23.4587	8.8250	2.6582	35.2011	0.0117
	visitatio_rate	10.9833	40.2623	0.2728	35.5734	0.7866
	Year2016	-5.1993	9.5968	-0.5418	31.4553	0.5918
	Year2017	-8.3910	18.5774	-0.4517	30.2709	0.6547
	Year2018	-4.2039	9.2286	-0.4555	34.5916	0.6516
	Year2019	-10.4550	12.0344	-0.8688	35.3038	0.3908
	visitatio_rate:Year2016	-9.1057	43.1440	-0.2111	35.5849	0.8340
	visitatio_rate:Year2017	3.8883	54.5119	0.0713	34.4111	0.9435
	visitatio_rate:Year2018	-6.2640	40.3477	-0.1553	35.0814	0.8775
Lavandula pedunculata	(Intercept)	2.0942	0.5071	4.1299	37.8704	0.0002
	visitatio_rate	1.1067	8.0141	0.1381	35.7302	0.8909
	Year2016	0.0089	0.6442	0.0138	36.6696	0.9891
	Year2017	0.1653	1.1318	0.1460	24.9166	0.8851
	Year2018	-0.0177	0.5930	-0.0299	38.4429	0.9763
	Year2019	0.3519	0.5350	0.6577	33.8199	0.5152
	visitatio_rate:Year2016	-0.4266	8.4461	-0.0505	35.2980	0.9600
	visitatio_rate:Year2017	-2.7136	8.8203	-0.3077	37.9236	0.7600
	visitatio_rate:Year2018	1.1884	8.8207	0.1347	36.1363	0.8936
	visitatio_rate:Year2019	-3.7119	8.1187	-0.4572	34.3640	0.6504
Lavandula stoechas	(Intercept)	2.4287	0.4094	5.9325	10.6547	0.0001
	visitatio_rate	-3.1042	1.1943	-2.5992	12.5448	0.0226
	Year2016	-0.0703	0.3255	-0.2159	10.2574	0.8333
	Year2017	0.8170	0.6894	1.1851	13.4276	0.2565
	Year2018	-1.1179	0.7092	-1.5763	12.0351	0.1409
	Year2019	-0.4969	0.6929	-0.7171	10.1274	0.4895
	visitatio_rate:Year2016	2.6602	1.2177	2.1847	12.4890	0.0486
	visitatio_rate:Year2017	-1.8267	5.8655	-0.3114	9.8126	0.7620
	visitatio_rate:Year2018	5.7116	61.5963	0.0927	8.8272	0.9282
	visitatio_rate:Year2019	0.6580	3.9406	0.1670	9.0199	0.8711
Salvia rosmarinus	(Intercept)	2.4091	0.3598	6.6965	4.5470	0.0016
	visitatio_rate	0.4636	0.8756	0.5295	3.6504	0.6270
	Year2016	-0.4705	0.9380	-0.5016	5.6813	0.6348
	Year2017	0.5909	0.9240	0.6395	5.4384	0.5485
	visitatio_rate:Year2016	9.5921	21.2012	0.4524	2.6341	0.6856
	visitatio_rate:Year2017	-0.4636	1.2927	-0.3586	3.0544	0.7432
Teucrium fruticans	(Intercept)	4.4947	2.4094	1.8655	1.2354	0.2750
	visitatio_rate	0.0184	2.6085	0.0071	3.0000	0.9948
	Year2017	0.1986	1.0684	0.1858	3.0447	0.8643
	Year2018	-3.6500	1.5850	-2.3028	3.1286	0.1011
	Year2019	-4.1209	2.5557	-1.6125	3.0496	0.2038
	visitatio_rate:Year2017	-5.2403	2.8188	-1.8590	3.0127	0.1596
	visitatio_rate:Year2018	0.5354	2.7613	0.1939	3.0000	0.8587

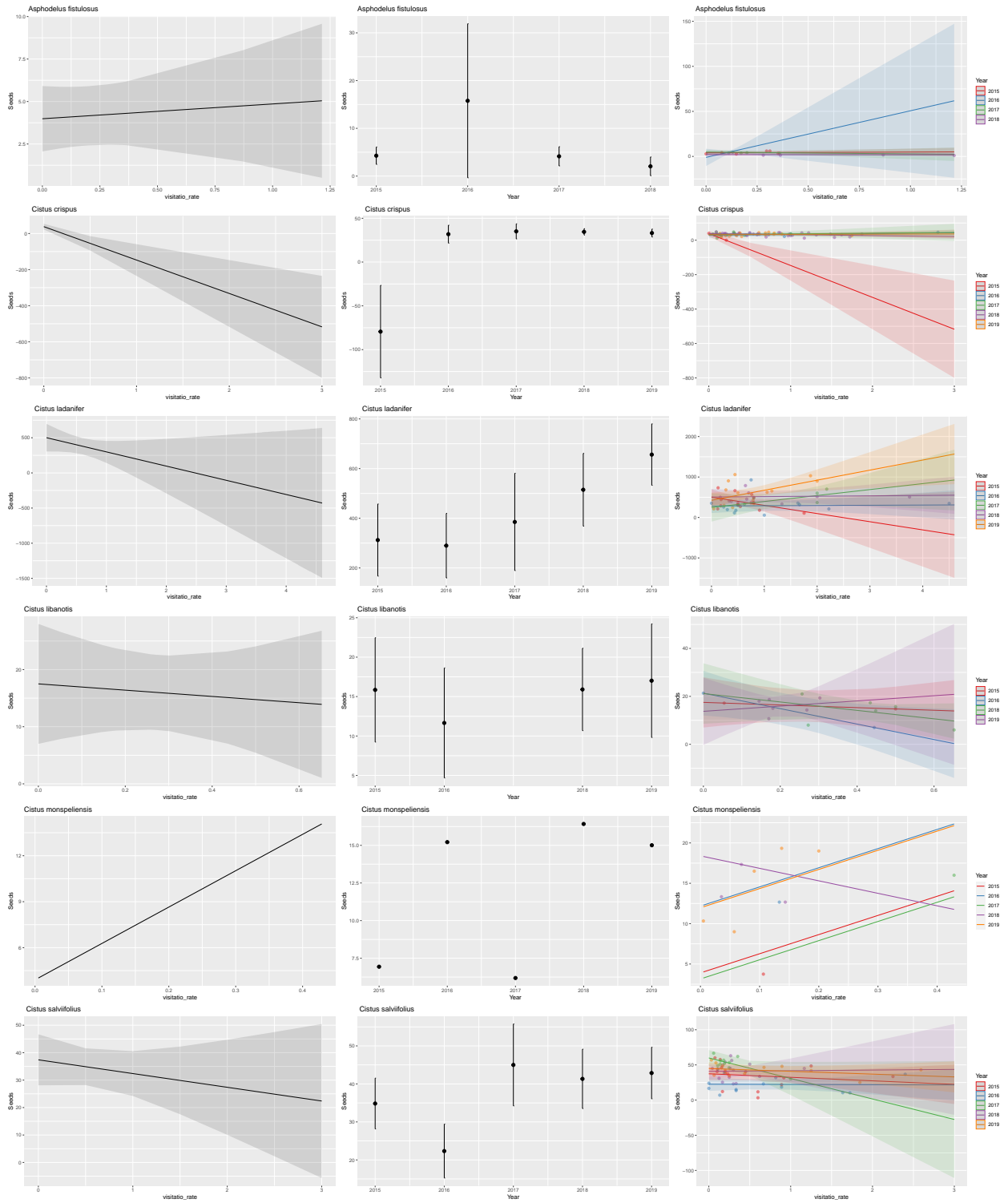
elimina algunos valores de interacciones en *C.monspeliensis*, *H.halimifolium* y *T.fruticans*: fixed-effect model matrix is rank deficient so dropping 3 columns / coefficients - 1 column / coefficient - 1 column / coefficient

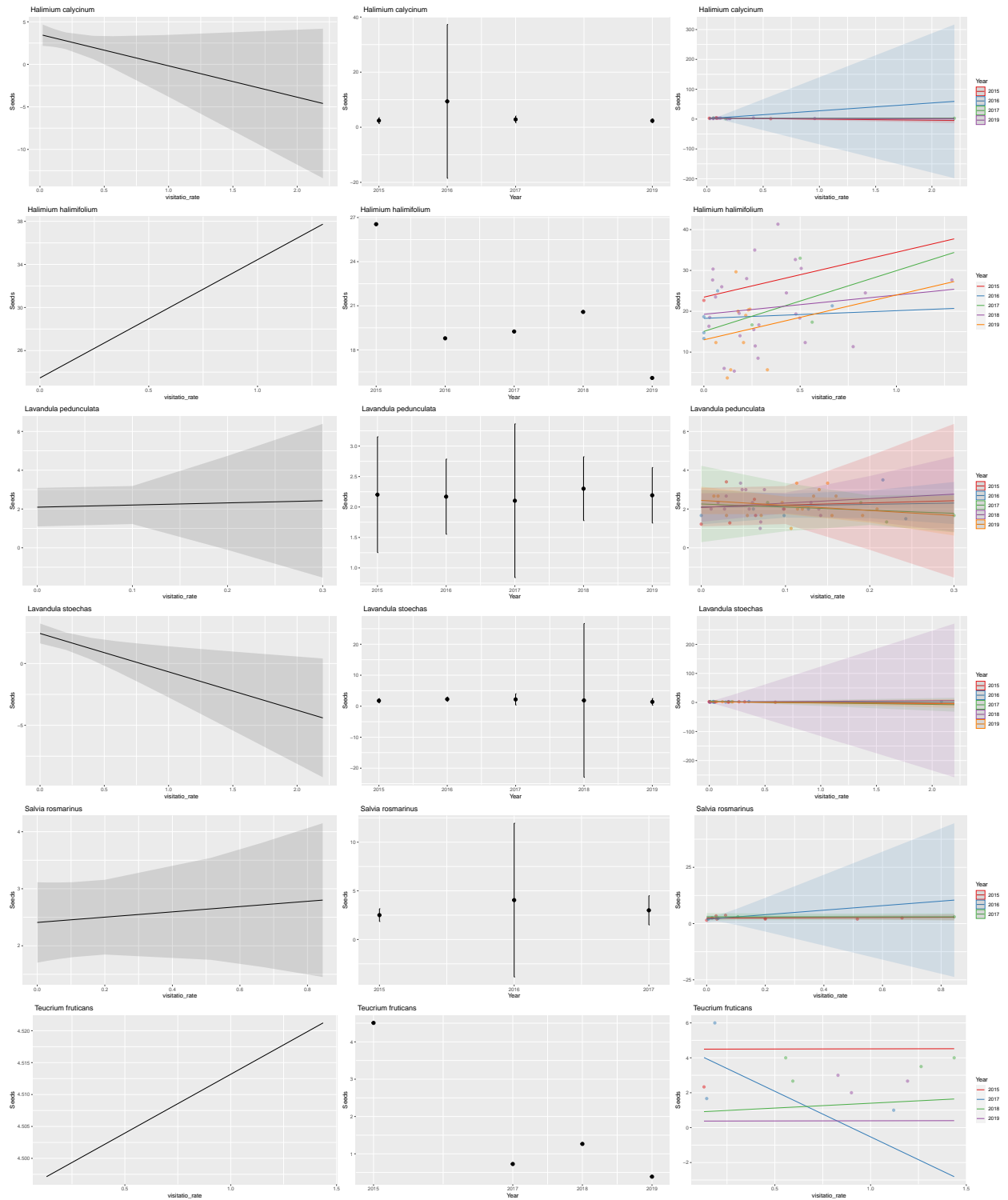
Además boundary (singular) fit: see help('isSingular')



Predicted values of Seeds

Cistus monspeliensis - *Halimium halimifolium* - *Teucrium fruticans* Could not compute variance-covariance matrix of predictions. No confidence intervals are returned.





se prueban modelos con year like random slope

Hay especies que dan problema porque hay menos observaciones que random effect. El error dice: the random-effects parameters and the residual variance (or scale parameter) are probably unidentifiable. Las especies que dan problema y habria que eliminar son: Halimium calycinum, Lavandula pedunculata, Lavandula stoechas, Salvia rosmarinus

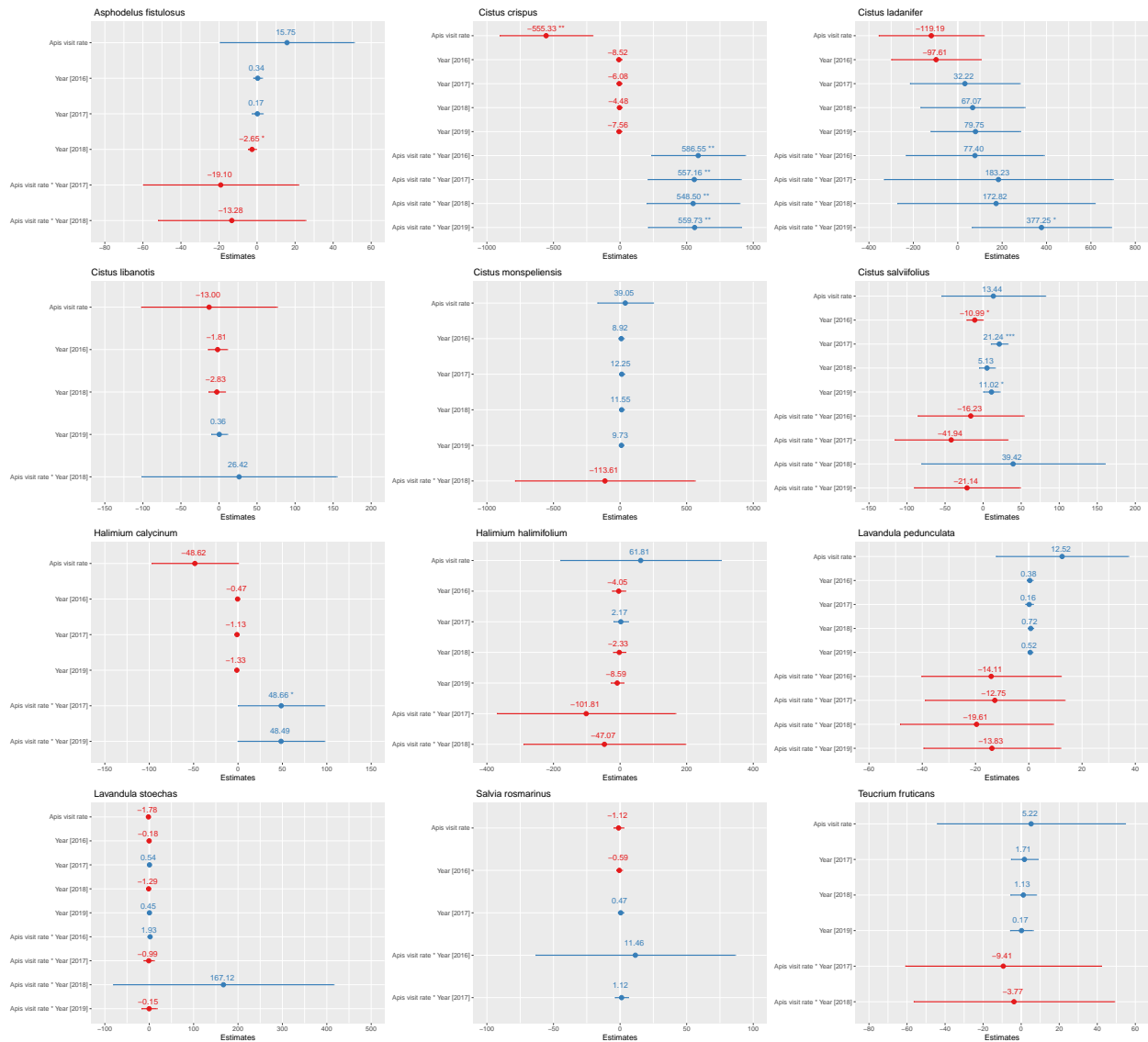
Visitation rate of *Apis mellifera*

A- linear model: $\text{lm}(\text{Seeds} \sim \text{Apis_visitation_rate} * \text{Year})$

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	3.8273	0.5694	6.7221	0.0001
	Apis_visit_rate	15.7463	15.2568	1.0321	0.3322
	Year2016	0.3394	0.9936	0.3416	0.7414
	Year2017	0.1682	1.2390	0.1358	0.8954
	Year2018	-2.6454	0.9168	-2.8854	0.0203
	Apis_visit_rate:Year2016	NA	NA	NA	NA
	Apis_visit_rate:Year2017	-19.0982	17.6830	-1.0800	0.3116
	Apis_visit_rate:Year2018	-13.2775	16.7892	-0.7908	0.4518
Cistus crispus	(Intercept)	39.6667	8.7961	4.5096	0.0000
	Apis_visit_rate	-555.3333	174.1544	-3.1887	0.0023
	Year2016	-8.5152	10.6085	-0.8027	0.4253
	Year2017	-6.0848	9.2676	-0.6566	0.5140
	Year2018	-4.4811	8.9873	-0.4986	0.6199
	Year2019	-7.5646	9.2756	-0.8155	0.4180
	Apis_visit_rate:Year2016	586.5455	176.1622	3.3296	0.0015
	Apis_visit_rate:Year2017	557.1637	174.4096	3.1946	0.0022
	Apis_visit_rate:Year2018	548.4972	174.2577	3.1476	0.0026
	Apis_visit_rate:Year2019	559.7335	174.5965	3.2059	0.0022
Cistus ladanifer	(Intercept)	415.2976	65.6378	6.3271	0.0000
	Apis_visit_rate	-119.1852	117.3575	-1.0156	0.3155
	Year2016	-97.6095	100.0209	-0.9759	0.3346
	Year2017	32.2183	122.6075	0.2628	0.7940
	Year2018	67.0749	116.2705	0.5769	0.5670
	Year2019	79.7496	99.9538	0.7979	0.4293
	Apis_visit_rate:Year2016	77.4003	154.0432	0.5025	0.6179
	Apis_visit_rate:Year2017	183.2328	255.4395	0.7173	0.4771
	Apis_visit_rate:Year2018	172.8179	220.5422	0.7836	0.4376
	Apis_visit_rate:Year2019	377.2498	155.4458	2.4269	0.0195
Cistus libanotis	(Intercept)	15.9750	3.9732	4.0207	0.0024
	Apis_visit_rate	-13.0000	40.0094	-0.3249	0.7519
	Year2016	-1.8083	5.6190	-0.3218	0.7542
	Year2018	-2.8344	4.8657	-0.5825	0.5731
	Year2019	0.3583	4.7012	0.0762	0.9407
	Apis_visit_rate:Year2016	NA	NA	NA	NA
	Apis_visit_rate:Year2018	26.4169	57.5255	0.4592	0.6559
	Apis_visit_rate:Year2019	NA	NA	NA	NA
Cistus monspeliensis	(Intercept)	3.7500	4.9555	0.7567	0.4913
	Apis_visit_rate	39.0469	75.1836	0.5194	0.6309
	Year2016	8.9167	7.0081	1.2723	0.2722
	Year2017	12.2500	7.0081	1.7480	0.1554
	Year2018	11.5506	6.3071	1.8314	0.1410
	Year2019	9.7350	6.0173	1.6178	0.1810
	Apis_visit_rate:Year2016	NA	NA	NA	NA
	Apis_visit_rate:Year2017	NA	NA	NA	NA
	Apis_visit_rate:Year2018	-113.6144	242.9740	-0.4676	0.6644
	Apis_visit_rate:Year2019	NA	NA	NA	NA
Cistus salviifolius	(Intercept)	34.1076	3.5748	9.5412	0.0000
	Apis_visit_rate	13.4376	34.0646	0.3945	0.6947
	Year2016	-10.9895	5.3082	-2.0703	0.0430

Halimium calycinum	Year2017	21.2372	5.5108	3.8537	0.0003
	Year2018	5.1267	5.1958	0.9867	0.3280
	Year2019	11.0185	5.3629	2.0546	0.0446
	Apis_visit_rate:Year2016	-16.2319	34.6835	-0.4680	0.6416
	Apis_visit_rate:Year2017	-41.9374	37.0162	-1.1329	0.2621
	Apis_visit_rate:Year2018	39.4151	60.1279	0.6555	0.5148
	Apis_visit_rate:Year2019	-21.1435	34.7113	-0.6091	0.5449
	(Intercept)	3.7172	0.5798	6.4118	0.0000
	Apis_visit_rate	-48.6195	22.3167	-2.1786	0.0500
	Year2016	-0.4672	0.8448	-0.5531	0.5904
	Year2017	-1.1339	0.8448	-1.3423	0.2044
	Year2019	-1.3338	0.7018	-1.9005	0.0816
	Apis_visit_rate:Year2016	NA	NA	NA	NA
	Apis_visit_rate:Year2017	48.6612	22.3231	2.1799	0.0499
Halimium halimifolium	Apis_visit_rate:Year2019	48.4935	22.4183	2.1631	0.0514
	(Intercept)	22.6667	8.8637	2.5573	0.0148
	Apis_visit_rate	61.8125	118.8963	0.5199	0.6062
	Year2016	-4.0500	9.7097	-0.4171	0.6790
	Year2017	2.1667	10.8557	0.1996	0.8429
	Year2018	-2.3280	9.0568	-0.2570	0.7986
	Year2019	-8.5919	9.4363	-0.9105	0.3684
	Apis_visit_rate:Year2016	NA	NA	NA	NA
	Apis_visit_rate:Year2017	-101.8125	132.2438	-0.7699	0.4463
	Apis_visit_rate:Year2018	-47.0671	119.9468	-0.3924	0.6970
	Apis_visit_rate:Year2019	NA	NA	NA	NA
	(Intercept)	1.7822	0.3630	4.9094	0.0000
	Apis_visit_rate	12.5191	12.2698	1.0203	0.3139
	Year2016	0.3815	0.5384	0.7086	0.4828
Lavandula pedunculata	Year2017	0.1617	0.7002	0.2309	0.8186
	Year2018	0.7230	0.4780	1.5126	0.1384
	Year2019	0.5233	0.4367	1.1984	0.2380
	Apis_visit_rate:Year2016	-14.1129	12.9348	-1.0911	0.2819
	Apis_visit_rate:Year2017	-12.7535	12.9666	-0.9836	0.3314
	Apis_visit_rate:Year2018	-19.6093	14.2045	-1.3805	0.1753
	Apis_visit_rate:Year2019	-13.8328	12.6951	-1.0896	0.2826
	(Intercept)	2.2920	0.3528	6.4959	0.0000
	Apis_visit_rate	-1.7841	1.3790	-1.2938	0.2167
	Year2016	-0.1817	0.4821	-0.3769	0.7119
	Year2017	0.5413	0.6441	0.8405	0.4148
	Year2018	-1.2920	0.6441	-2.0061	0.0646
	Year2019	0.4487	0.9404	0.4772	0.6406
	Apis_visit_rate:Year2016	1.9310	1.4392	1.3417	0.2011
Lavandula stoechas	Apis_visit_rate:Year2017	-0.9937	5.3649	-0.1852	0.8557
	Apis_visit_rate:Year2018	167.1174	115.7284	1.4440	0.1707
	Apis_visit_rate:Year2019	-0.1534	7.9938	-0.0192	0.9850
	(Intercept)	2.5343	0.2784	9.1041	0.0000
	Apis_visit_rate	-1.1206	1.5582	-0.7191	0.4954
	Year2016	-0.5904	0.8956	-0.6592	0.5308
	Year2017	0.4657	0.8779	0.5305	0.6122
	Apis_visit_rate:Year2016	11.4610	31.6739	0.3618	0.7281
	Apis_visit_rate:Year2017	1.1206	2.0885	0.5365	0.6082
	(Intercept)	2.1638	1.9421	1.1142	0.3276
	Apis_visit_rate	5.2222	17.7888	0.2936	0.7837
	Year2017	1.7090	2.5314	0.6751	0.5366
	Year2018				
	Year2019				
Salvia rosmarinus	Year2016				
	Year2017				
	Year2018				
	Year2019				
	Apis_visit_rate:Year2016				
	Apis_visit_rate:Year2017				
	Apis_visit_rate:Year2018				
	Apis_visit_rate:Year2019				
	(Intercept)				
	Apis_visit_rate				
	Year2016				
	Year2017				
	Year2018				
	Year2019				
Teucrium fruticans	Apis_visit_rate:Year2016				
	Apis_visit_rate:Year2017				
	Apis_visit_rate:Year2018				
	Apis_visit_rate:Year2019				
	(Intercept)				
	Apis_visit_rate				
	Year2016				
	Year2017				
	Year2018				
	Year2019				
	Apis_visit_rate:Year2016				
	Apis_visit_rate:Year2017				
	Apis_visit_rate:Year2018				
	Apis_visit_rate:Year2019				

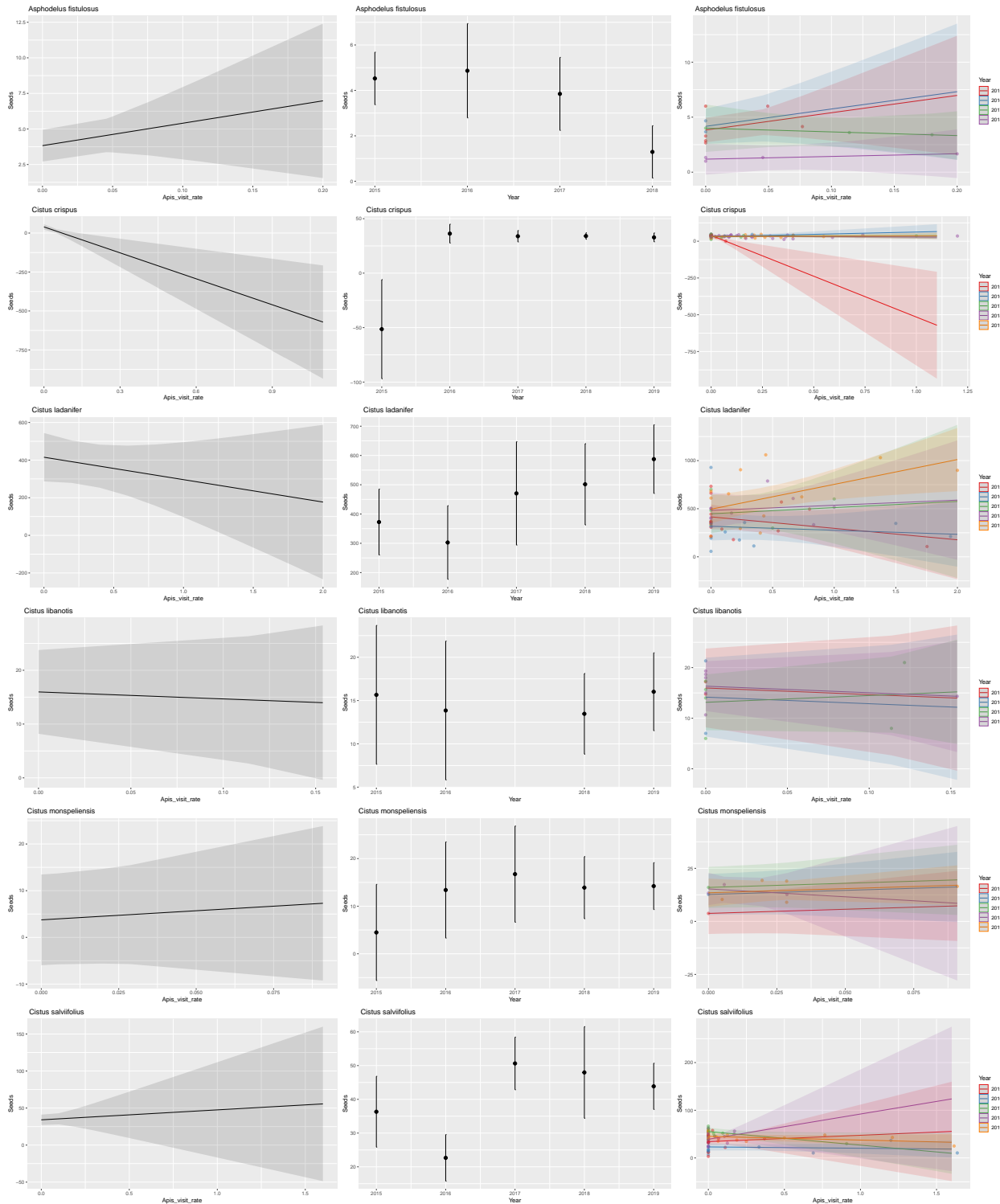
Year2018	1.1339	2.4229	0.4680	0.6641
Year2019	0.1696	2.1485	0.0789	0.9409
Apis_visit_rate:Year2017	-9.4119	18.5328	-0.5079	0.6383
Apis_visit_rate:Year2018	-3.7711	18.9815	-0.1987	0.8522
Apis_visit_rate:Year2019	NA	NA	NA	NA

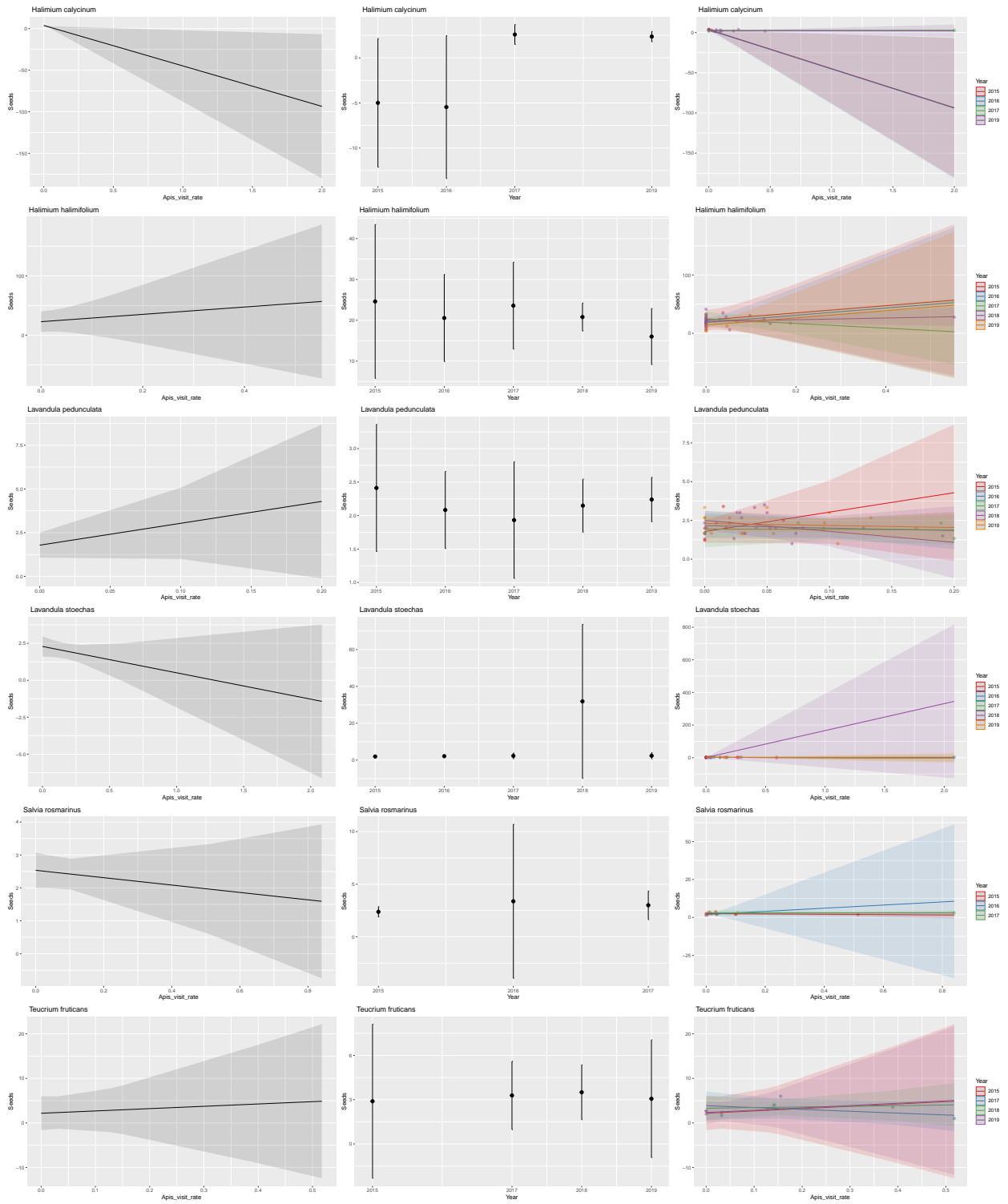


Predicted values of Seeds

Asphodelus fistulosus - *Cistus libanotis* - *Cistus monspeliensis* - *Halimium calycinum* - *Halimium halimifolium* - *Teucrium fruticans*

Warning message: In predict.lm(model, newdata = fitfram, type = "response", se.fit = se, prediction from a rank-deficient fit may be misleading





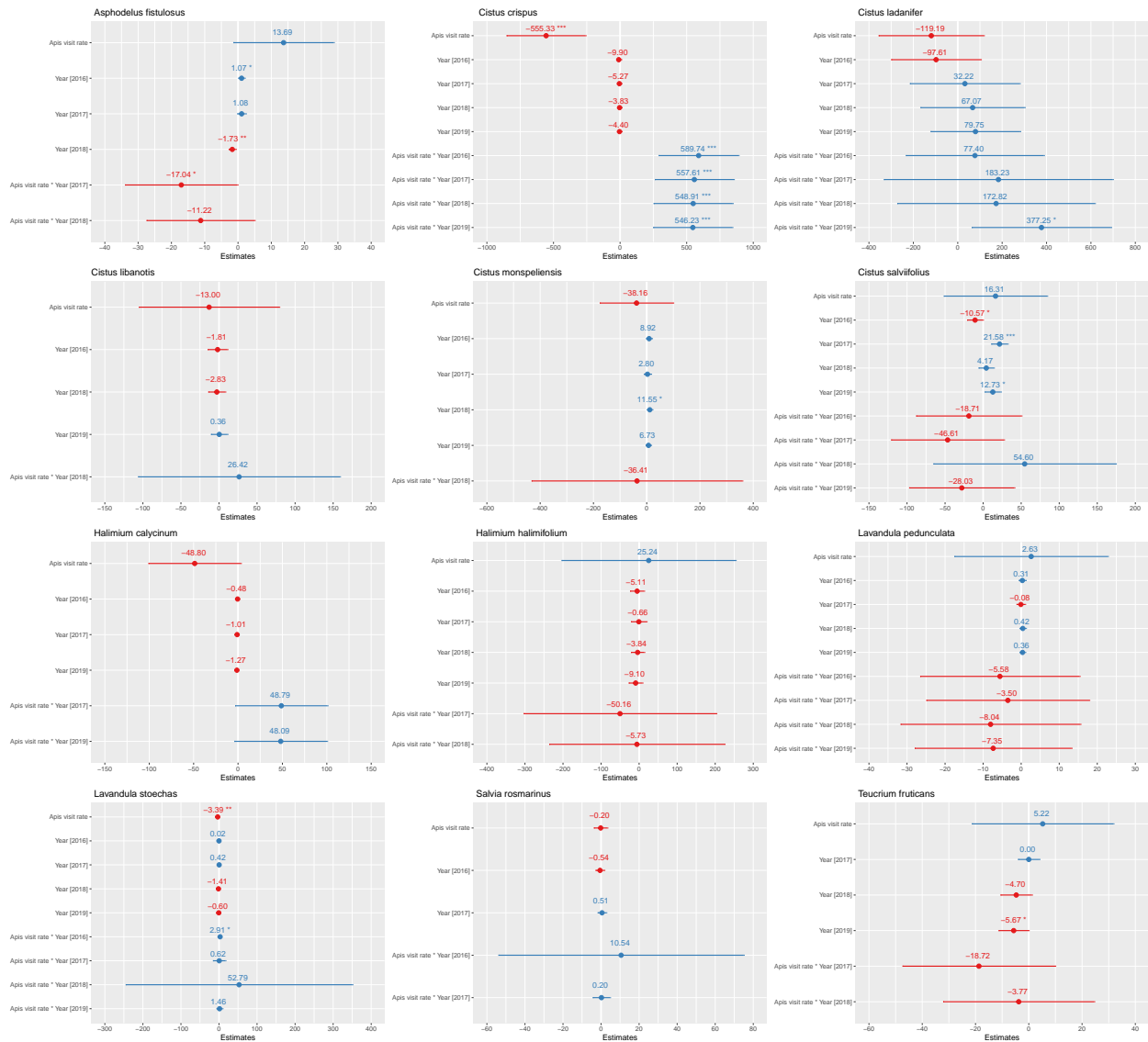
B- linear mixed model with site ID like random factor

Plant_gen_sp	term	estimate	std.error	statistic	df	p.value
Asphodelus fistulosus	(Intercept)	3.8706	0.9095	4.2560	2.0820	0.0475
	Apis_visit_rate	13.6859	6.1702	2.2181	6.1655	0.0672
	Year2016	1.0688	0.3990	2.6785	6.1539	0.0357
	Year2017	1.0842	0.5295	2.0477	6.1976	0.0850
	Year2018	-1.7294	0.4428	-3.9059	6.2724	0.0073
	Apis_visit_rate:Year2017	-17.0378	6.9117	-2.4651	6.1366	0.0479
Cistus crispus	Apis_visit_rate:Year2018	-11.2172	6.6356	-1.6904	6.1462	0.1407
	(Intercept)	38.8586	8.0001	4.8573	58.2516	0.0000
	Apis_visit_rate	-555.3333	148.1665	-3.7480	51.3009	0.0005
	Year2016	-9.9043	9.6621	-1.0251	55.6819	0.3098
	Year2017	-5.2727	8.2762	-0.6371	54.4434	0.5267
	Year2018	-3.8330	7.9840	-0.4801	54.2420	0.6331
Cistus ladanifer	Year2019	-4.3982	8.3436	-0.5271	54.9361	0.6002
	Apis_visit_rate:Year2016	589.7431	150.1557	3.9275	51.4465	0.0003
	Apis_visit_rate:Year2017	557.6061	148.4019	3.7574	51.3096	0.0004
	Apis_visit_rate:Year2018	548.9069	148.2735	3.7020	51.3122	0.0005
	Apis_visit_rate:Year2019	546.2252	148.6102	3.6756	51.3362	0.0006
	(Intercept)	415.2976	65.6378	6.3271	43.0000	0.0000
Cistus libanotis	Apis_visit_rate	-119.1852	117.3575	-1.0156	43.0000	0.3155
	Year2016	-97.6095	100.0209	-0.9759	43.0000	0.3346
	Year2017	32.2183	122.6075	0.2628	43.0000	0.7940
	Year2018	67.0749	116.2705	0.5769	43.0000	0.5670
	Year2019	79.7496	99.9538	0.7979	43.0000	0.4293
	Apis_visit_rate:Year2016	77.4003	154.0432	0.5025	43.0000	0.6179
Cistus monspeliensis	Apis_visit_rate:Year2017	183.2328	255.4395	0.7173	43.0000	0.4771
	Apis_visit_rate:Year2018	172.8179	220.5422	0.7836	43.0000	0.4376
	Apis_visit_rate:Year2019	377.2498	155.4458	2.4269	43.0000	0.0195
	(Intercept)	15.9750	3.9732	4.0207	10.0000	0.0024
	Apis_visit_rate	-13.0000	40.0094	-0.3249	10.0000	0.7519
	Year2016	-1.8083	5.6190	-0.3218	10.0000	0.7542
Cistus salviifolius	Year2018	-2.8344	4.8657	-0.5825	10.0000	0.5731
	Year2019	0.3583	4.7012	0.0762	10.0000	0.9407
	Apis_visit_rate:Year2018	26.4169	57.5255	0.4592	10.0000	0.6559
	(Intercept)	8.4750	5.2487	1.6147	1.2873	0.3100
	Apis_visit_rate	-38.1589	32.0586	-1.1903	3.0568	0.3181
	Year2016	8.9167	2.6146	3.4103	3.0000	0.0421
Cistus salviifolius	Year2017	2.8000	3.2321	0.8663	3.0838	0.4485
	Year2018	11.5506	2.3531	4.9087	3.0000	0.0162
	Year2019	6.7310	2.3248	2.8953	3.0164	0.0623
	Apis_visit_rate:Year2018	-36.4086	91.9691	-0.3959	3.0069	0.7186
	(Intercept)	33.4495	3.7216	8.9879	40.7337	0.0000
	Apis_visit_rate	16.3109	33.8802	0.4814	55.9618	0.6321
Cistus salviifolius	Year2016	-10.5737	5.2049	-2.0315	55.3668	0.0470
	Year2017	21.5794	5.4086	3.9898	55.2789	0.0002
	Year2018	4.1731	5.0165	0.8319	51.4967	0.4093
	Year2019	12.7334	5.2856	2.4091	55.0825	0.0194
	Apis_visit_rate:Year2016	-18.7108	34.5330	-0.5418	55.9134	0.5901
	Apis_visit_rate:Year2017	-46.6144	37.0075	-1.2596	55.6563	0.2131
Cistus salviifolius	Apis_visit_rate:Year2018	54.5988	59.7932	0.9131	55.8146	0.3651
	Apis_visit_rate:Year2019	-28.0345	34.5054	-0.8125	55.9899	0.4200

Halimium calycinum	(Intercept)	3.7219	0.6261	5.9448	5.4100	0.0015
	Apis_visit_rate	-48.8003	23.3665	-2.0885	7.5280	0.0724
	Year2016	-0.4790	0.8670	-0.5525	10.0793	0.5927
	Year2017	-1.0116	0.8774	-1.1530	9.1460	0.2781
	Year2019	-1.2721	0.7390	-1.7213	7.6775	0.1251
	Apis_visit_rate:Year2017	48.7881	23.3721	2.0875	7.5323	0.0724
	Apis_visit_rate:Year2019	48.0913	23.4776	2.0484	7.5516	0.0768
Halimium halimifolium	(Intercept)	23.8296	8.5606	2.7836	35.9897	0.0085
	Apis_visit_rate	25.2359	112.7090	0.2239	33.6974	0.8242
	Year2016	-5.1095	9.0852	-0.5624	32.3298	0.5777
	Year2017	-0.6604	10.1335	-0.0652	32.4353	0.9484
	Year2018	-3.8427	8.6600	-0.4437	34.2068	0.6600
	Year2019	-9.1034	8.8955	-1.0234	33.1109	0.3135
	Apis_visit_rate:Year2017	-50.1580	124.7605	-0.4020	33.2592	0.6902
	Apis_visit_rate:Year2018	-5.7279	113.4950	-0.0505	33.4586	0.9600
Lavandula pedunculata	(Intercept)	2.0606	0.3494	5.8976	33.3164	0.0000
	Apis_visit_rate	2.6327	9.9567	0.2644	34.4743	0.7930
	Year2016	0.3052	0.4538	0.6726	36.1260	0.5055
	Year2017	-0.0795	0.5610	-0.1418	35.5665	0.8881
	Year2018	0.4216	0.4197	1.0046	37.3479	0.3215
	Year2019	0.3637	0.3624	1.0035	35.6377	0.3224
	Apis_visit_rate:Year2016	-5.5819	10.3430	-0.5397	34.0668	0.5929
	Apis_visit_rate:Year2017	-3.5003	10.5677	-0.3312	35.6355	0.7424
	Apis_visit_rate:Year2018	-8.0384	11.6638	-0.6892	34.9308	0.4953
	Apis_visit_rate:Year2019	-7.3529	10.1747	-0.7227	34.1885	0.4748
Lavandula stoechas	(Intercept)	2.4091	0.4230	5.6958	6.5791	0.0009
	Apis_visit_rate	-3.3946	1.0290	-3.2989	11.8141	0.0065
	Year2016	0.0225	0.2653	0.0847	10.0656	0.9342
	Year2017	0.4242	1.0282	0.4126	4.9017	0.6973
	Year2018	-1.4091	1.0282	-1.3704	4.9017	0.2300
	Year2019	-0.6034	0.5525	-1.0921	10.2408	0.2998
	Apis_visit_rate:Year2016	2.9084	1.0508	2.7679	11.7702	0.0173
	Apis_visit_rate:Year2017	0.6168	7.5531	0.0817	5.0938	0.9380
	Apis_visit_rate:Year2018	52.7852	136.7640	0.3860	6.2951	0.7122
	Apis_visit_rate:Year2019	1.4570	3.6482	0.3994	9.3266	0.6986
Salvia rosmarinus	(Intercept)	2.4879	0.3227	7.7094	3.3726	0.0030
	Apis_visit_rate	-0.2045	1.3845	-0.1477	3.5449	0.8906
	Year2016	-0.5441	0.8992	-0.6050	6.1096	0.5669
	Year2017	0.5121	0.8882	0.5765	5.9103	0.5855
	Apis_visit_rate:Year2016	10.5449	25.0810	0.4204	2.1025	0.7133
	Apis_visit_rate:Year2017	0.2045	1.7688	0.1156	2.8783	0.9155
Teucrium fruticans	(Intercept)	5.0818	3.0910	1.6441	1.0969	0.3314
	Apis_visit_rate	5.2222	6.1795	0.8451	3.0000	0.4601
	Year2017	0.0034	0.9344	0.0037	3.0235	0.9973
	Year2018	-4.7021	1.3700	-3.4322	3.1279	0.0389
	Year2019	-5.6665	1.3136	-4.3137	3.1391	0.0209
	Apis_visit_rate:Year2017	-18.7166	6.6647	-2.8083	3.0138	0.0670
	Apis_visit_rate:Year2018	-3.7711	6.5938	-0.5719	3.0000	0.6074

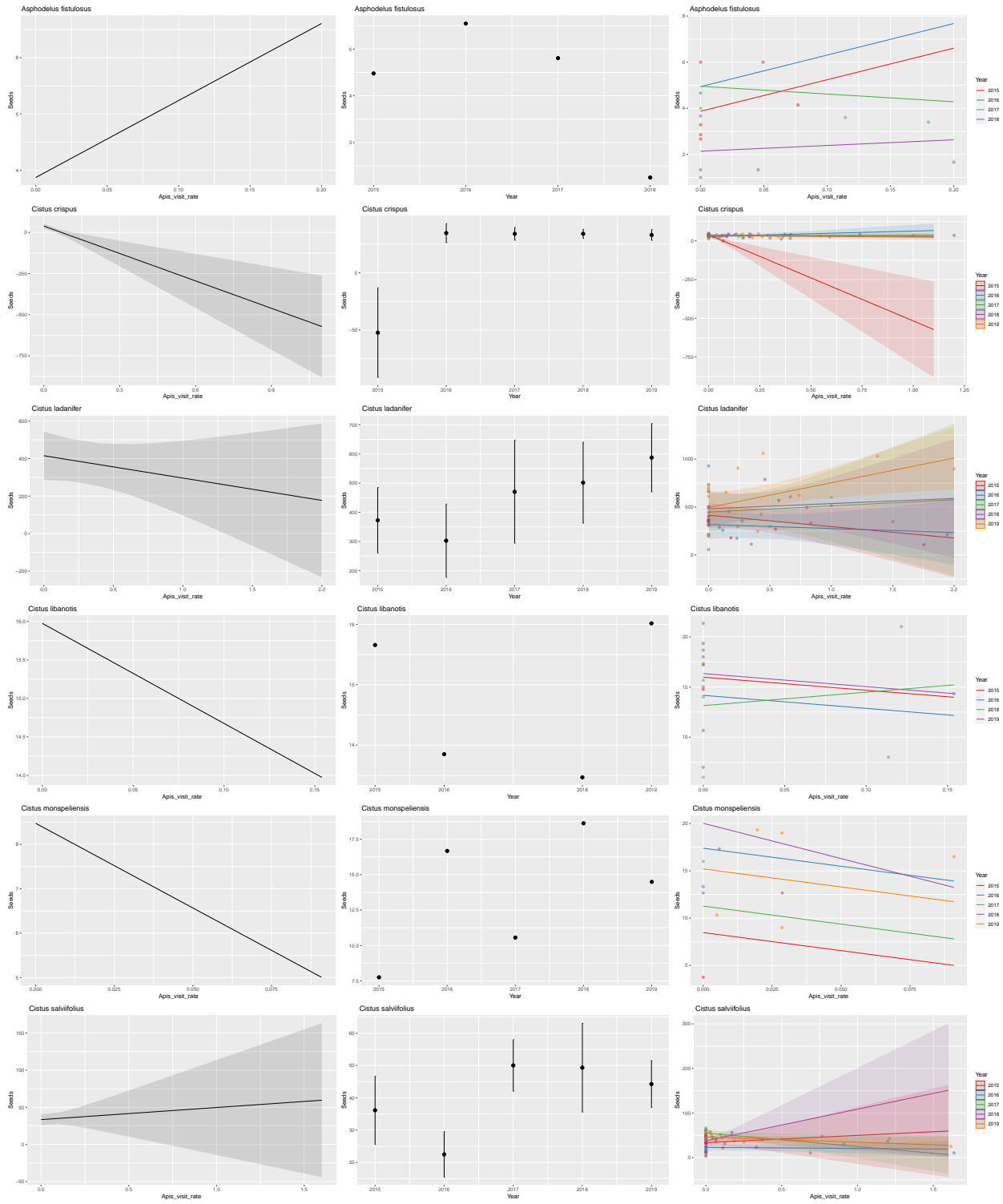
elimina algunos valores de interacciones en *Asphodelus fistulosus* - *Cistus libanotis*- *Cistus monspeliensis* - *Halimium calycinum* - *Halimium halimifolium* - *Teucrium fruticans*: fixed-effect model matrix is rank deficient so dropping 3 columns / coefficients - 1 column / coefficient - 1 column / coefficient

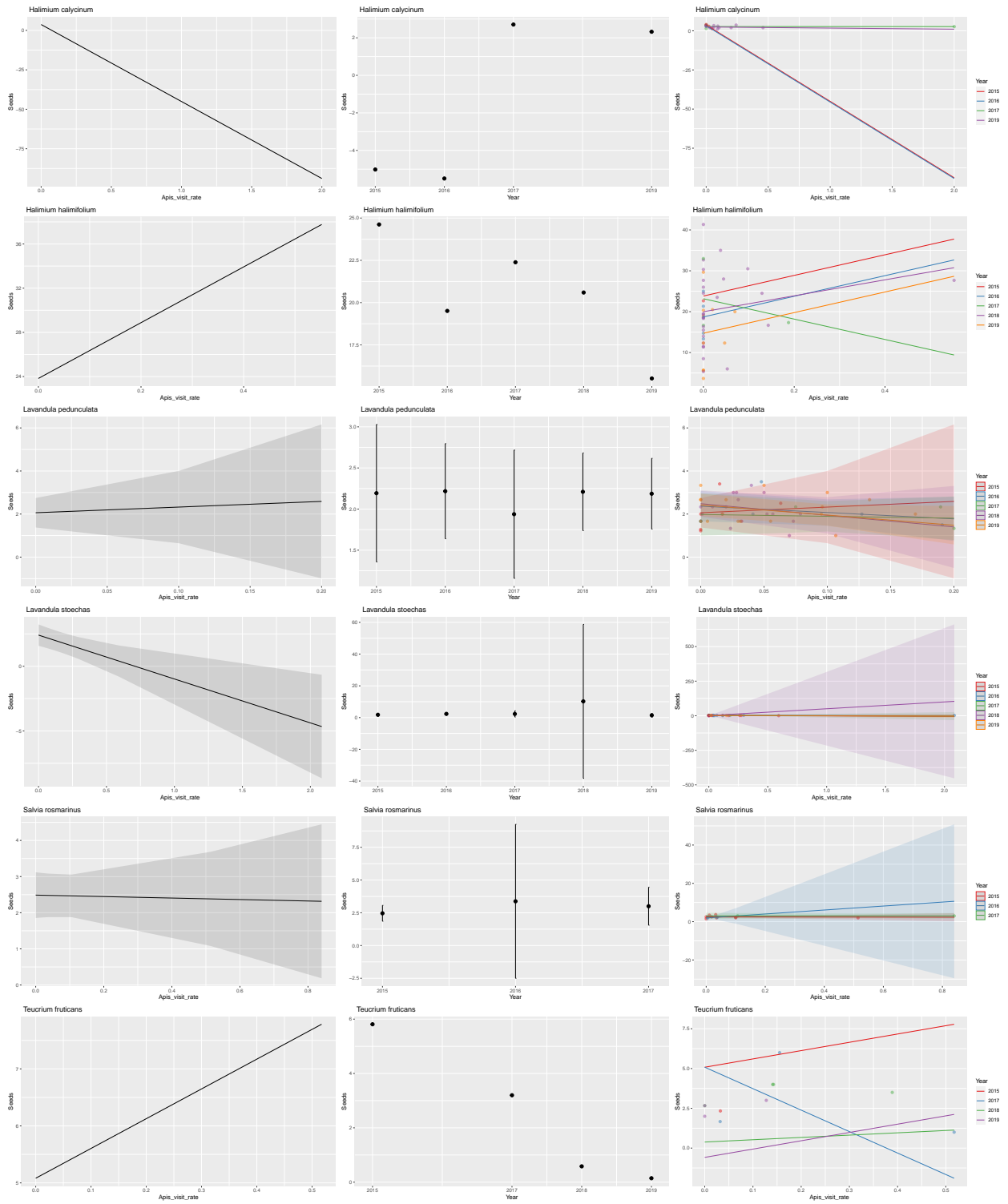
Además boundary (singular) fit: see help('isSingular')



Predicted values of Seeds

Asphodelus fistulosus - *Cistus libanotis* - *Cistus monspeliensis* - *Halimium calycinum* - *Halimium halimifolium* - *Teucrium fruticans* Could not compute variance-covariance matrix of predictions. No confidence intervals are returned





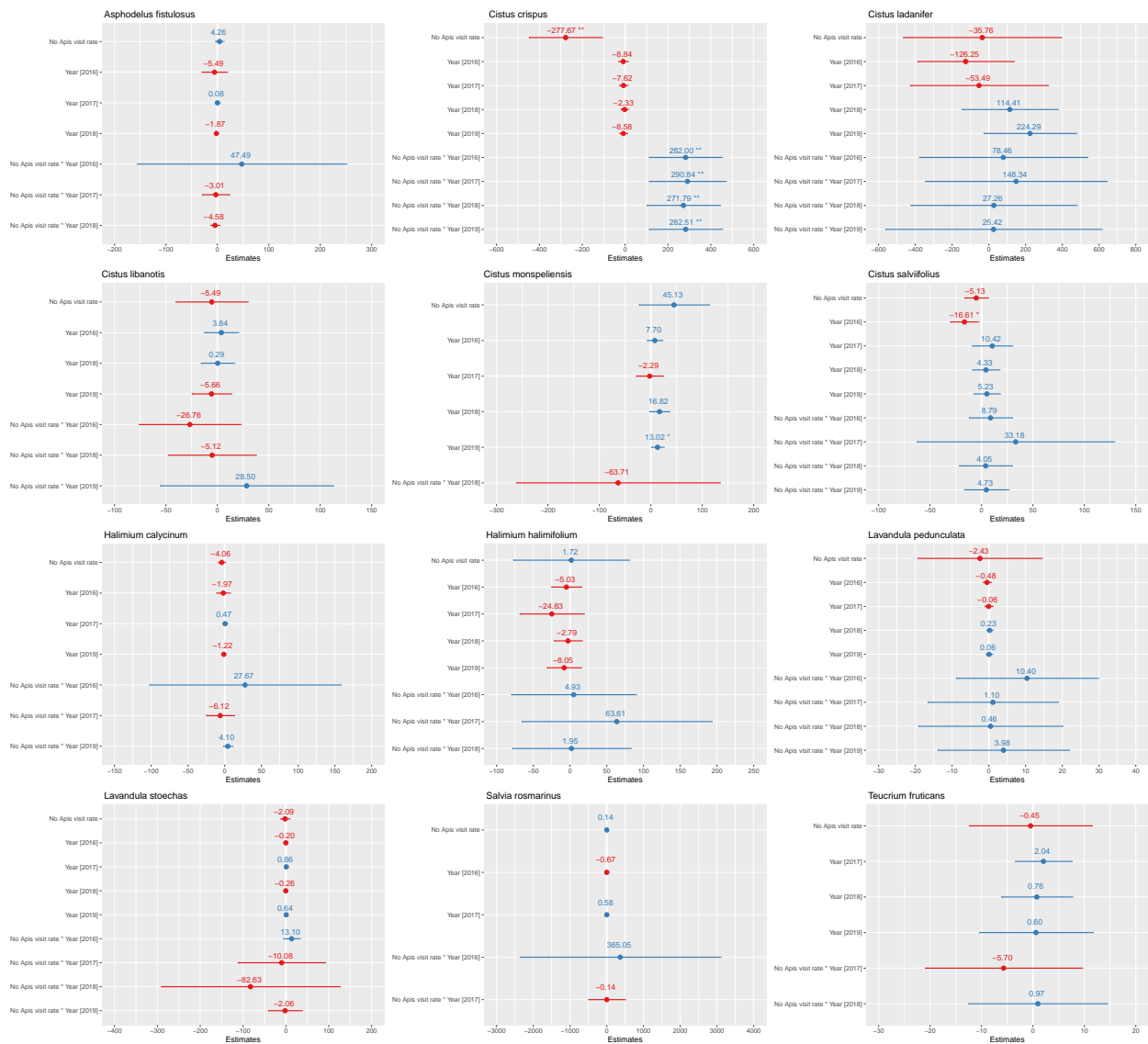
Visitation rate of pollinator without *Apis mellifera*

A- linear model: $\text{lm}(\text{Seeds} \sim \text{No_Apis_visitatio_rate} * \text{Year})$

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	3.4065	0.7723	4.4107	0.0031
	No_Apis_visit_rate	4.2556	3.4248	1.2426	0.2540
	Year2016	-5.4899	10.4467	-0.5255	0.6155
	Year2017	0.0792	1.8724	0.0423	0.9674
	Year2018	-1.8719	1.3730	-1.3634	0.2150
	No_Apis_visit_rate:Year2016	47.4944	86.0551	0.5519	0.5982
	No_Apis_visit_rate:Year2017	-3.0142	11.2729	-0.2674	0.7969
	No_Apis_visit_rate:Year2018	-4.5804	3.7663	-1.2162	0.2633
Cistus crispus	(Intercept)	39.6667	8.6201	4.6016	0.0000
	No_Apis_visit_rate	-277.6667	85.3347	-3.2539	0.0019
	Year2016	-8.8410	11.0975	-0.7967	0.4288
	Year2017	-7.6224	9.7491	-0.7819	0.4374
	Year2018	-2.3327	8.9190	-0.2615	0.7946
	Year2019	-8.5775	9.1011	-0.9425	0.3497
	No_Apis_visit_rate:Year2016	281.9994	85.4673	3.2995	0.0016
	No_Apis_visit_rate:Year2017	290.8369	89.7370	3.2410	0.0019
	No_Apis_visit_rate:Year2018	271.7929	85.3895	3.1830	0.0023
	No_Apis_visit_rate:Year2019	282.5128	85.5312	3.3030	0.0016
Cistus ladanifer	(Intercept)	393.0555	90.7845	4.3295	0.0001
	No_Apis_visit_rate	-35.7620	213.3241	-0.1676	0.8677
	Year2016	-126.2500	129.8955	-0.9719	0.3365
	Year2017	-53.4909	186.3032	-0.2871	0.7754
	Year2018	114.4141	129.6012	0.8828	0.3822
	Year2019	224.2908	125.5068	1.7871	0.0810
	No_Apis_visit_rate:Year2016	78.4626	227.2791	0.3452	0.7316
	No_Apis_visit_rate:Year2017	148.3396	245.4046	0.6045	0.5487
	No_Apis_visit_rate:Year2018	27.2566	224.4023	0.1215	0.9039
	No_Apis_visit_rate:Year2019	25.4234	292.1605	0.0870	0.9311
Cistus libanotis	(Intercept)	17.4970	5.3892	3.2467	0.0118
	No_Apis_visit_rate	-5.4939	15.1547	-0.3625	0.7264
	Year2016	3.8364	7.2028	0.5326	0.6088
	Year2018	0.2884	7.0482	0.0409	0.9684
	Year2019	-5.6591	8.3043	-0.6815	0.5148
	No_Apis_visit_rate:Year2016	-26.7561	21.4682	-1.2463	0.2479
	No_Apis_visit_rate:Year2018	-5.1178	18.4762	-0.2770	0.7888
	No_Apis_visit_rate:Year2019	28.4953	36.5041	0.7806	0.4575
Cistus monspeliensis	(Intercept)	-1.0511	4.6110	-0.2280	0.8309
	No_Apis_visit_rate	45.1302	24.5827	1.8359	0.1403
	Year2016	7.7004	5.4113	1.4230	0.2278
	Year2017	-2.2904	9.5694	-0.2393	0.8226
	Year2018	16.8190	6.9824	2.4088	0.0737
	Year2019	13.0173	4.2914	3.0334	0.0387
	No_Apis_visit_rate:Year2016	NA	NA	NA	NA
	No_Apis_visit_rate:Year2017	NA	NA	NA	NA
	No_Apis_visit_rate:Year2018	-63.7098	71.2423	-0.8943	0.4217
	No_Apis_visit_rate:Year2019	NA	NA	NA	NA
Cistus salviifolius	(Intercept)	37.3889	4.6036	8.1217	0.0000
	No_Apis_visit_rate	-5.1306	5.7543	-0.8916	0.3764
	Year2016	-16.6129	6.8632	-2.4206	0.0188

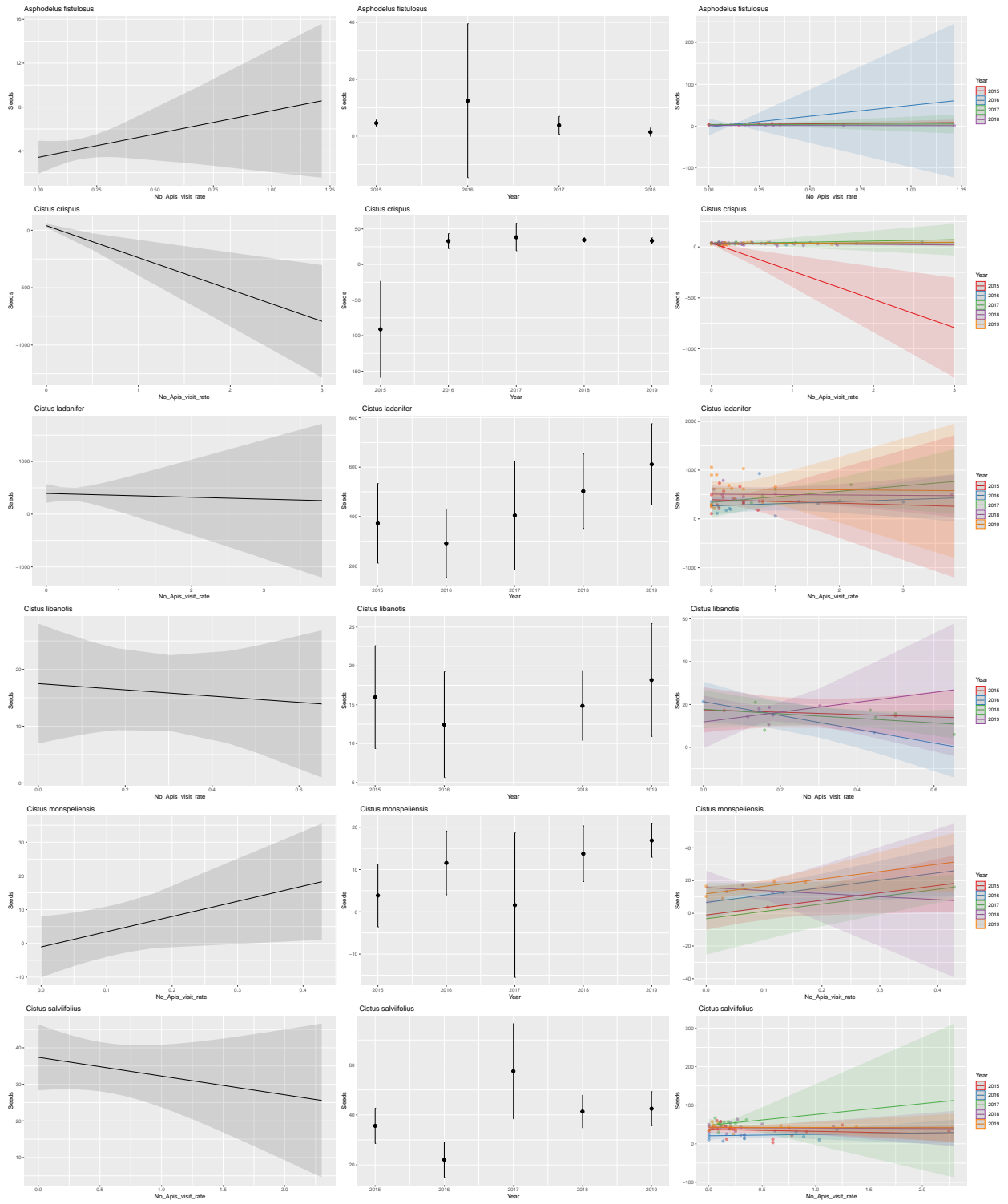
Halimium calycinum	Year2017	10.4164	9.7425	1.0692	0.2896
	Year2018	4.3263	6.5915	0.6563	0.5143
	Year2019	5.2261	6.3158	0.8275	0.4115
	No_Apis_visit_rate:Year2016	8.7896	10.4987	0.8372	0.4060
	No_Apis_visit_rate:Year2017	33.1780	47.8802	0.6929	0.4912
	No_Apis_visit_rate:Year2018	4.0486	12.8569	0.3149	0.7540
	No_Apis_visit_rate:Year2019	4.7310	10.7752	0.4391	0.6623
	(Intercept)	3.5845	0.5818	6.1613	0.0001
	No_Apis_visit_rate	-4.0619	2.1772	-1.8656	0.0890
	Year2016	-1.9734	4.1952	-0.4704	0.6473
Halimium halimifolium	Year2017	0.4651	1.4151	0.3287	0.7486
	Year2019	-1.2220	0.6767	-1.8057	0.0984
	No_Apis_visit_rate:Year2016	27.6730	59.2112	0.4674	0.6494
	No_Apis_visit_rate:Year2017	-6.1208	8.6610	-0.7067	0.4944
	No_Apis_visit_rate:Year2019	4.1019	2.9217	1.4039	0.1879
	(Intercept)	22.6667	8.9244	2.5398	0.0156
	No_Apis_visit_rate	1.7249	38.9628	0.0443	0.9649
	Year2016	-5.0326	10.0335	-0.5016	0.6190
	Year2017	-24.8333	21.5546	-1.1521	0.2569
	Year2018	-2.7901	9.3759	-0.2976	0.7677
Lavandula pedunculata	Year2019	-8.0527	11.5912	-0.6947	0.4917
	No_Apis_visit_rate:Year2016	4.9314	41.8562	0.1178	0.9069
	No_Apis_visit_rate:Year2017	63.6084	63.7712	0.9974	0.3252
	No_Apis_visit_rate:Year2018	1.9514	39.7303	0.0491	0.9611
	No_Apis_visit_rate:Year2019	NA	NA	NA	NA
	(Intercept)	2.0850	0.3752	5.5576	0.0000
	No_Apis_visit_rate	-2.4256	8.3585	-0.2902	0.7732
	Year2016	-0.4796	0.5363	-0.8943	0.3767
	Year2017	-0.0610	0.5532	-0.1103	0.9127
	Year2018	0.2270	0.4405	0.5153	0.6092
Lavandula stoechas	Year2019	0.0617	0.4429	0.1392	0.8900
	No_Apis_visit_rate:Year2016	10.4012	9.5603	1.0880	0.2833
	No_Apis_visit_rate:Year2017	1.1002	8.7850	0.1252	0.9010
	No_Apis_visit_rate:Year2018	0.4556	9.6996	0.0470	0.9628
	No_Apis_visit_rate:Year2019	3.9780	8.8535	0.4493	0.6557
	(Intercept)	2.0621	0.3172	6.5006	0.0000
	No_Apis_visit_rate	-2.0870	4.9229	-0.4239	0.6780
	Year2016	-0.2032	0.4853	-0.4187	0.6818
	Year2017	0.8613	1.1450	0.7522	0.4644
	Year2018	-0.2637	0.6859	-0.3845	0.7064
Salvia rosmarinus	Year2019	0.6403	0.8359	0.7661	0.4564
	No_Apis_visit_rate:Year2016	13.1009	9.1614	1.4300	0.1747
	No_Apis_visit_rate:Year2017	-10.0751	47.7303	-0.2111	0.8359
	No_Apis_visit_rate:Year2018	-82.6308	97.0567	-0.8514	0.4089
	No_Apis_visit_rate:Year2019	-2.0599	18.3536	-0.1122	0.9122
	(Intercept)	2.4191	0.2786	8.6835	0.0001
	No_Apis_visit_rate	0.1390	1.2244	0.1135	0.9128
	Year2016	-0.6670	1.4423	-0.4624	0.6578
	Year2017	0.5809	0.7969	0.7290	0.4897
	No_Apis_visit_rate:Year2016	365.0462	1156.7188	0.3156	0.7615
Teucrium fruticans	No_Apis_visit_rate:Year2017	-0.1390	211.1691	-0.0007	0.9995
	(Intercept)	2.3775	1.5613	1.5228	0.2025
	No_Apis_visit_rate	-0.4535	4.3044	-0.1054	0.9212
	Year2017	2.0416	1.9803	1.0310	0.3608

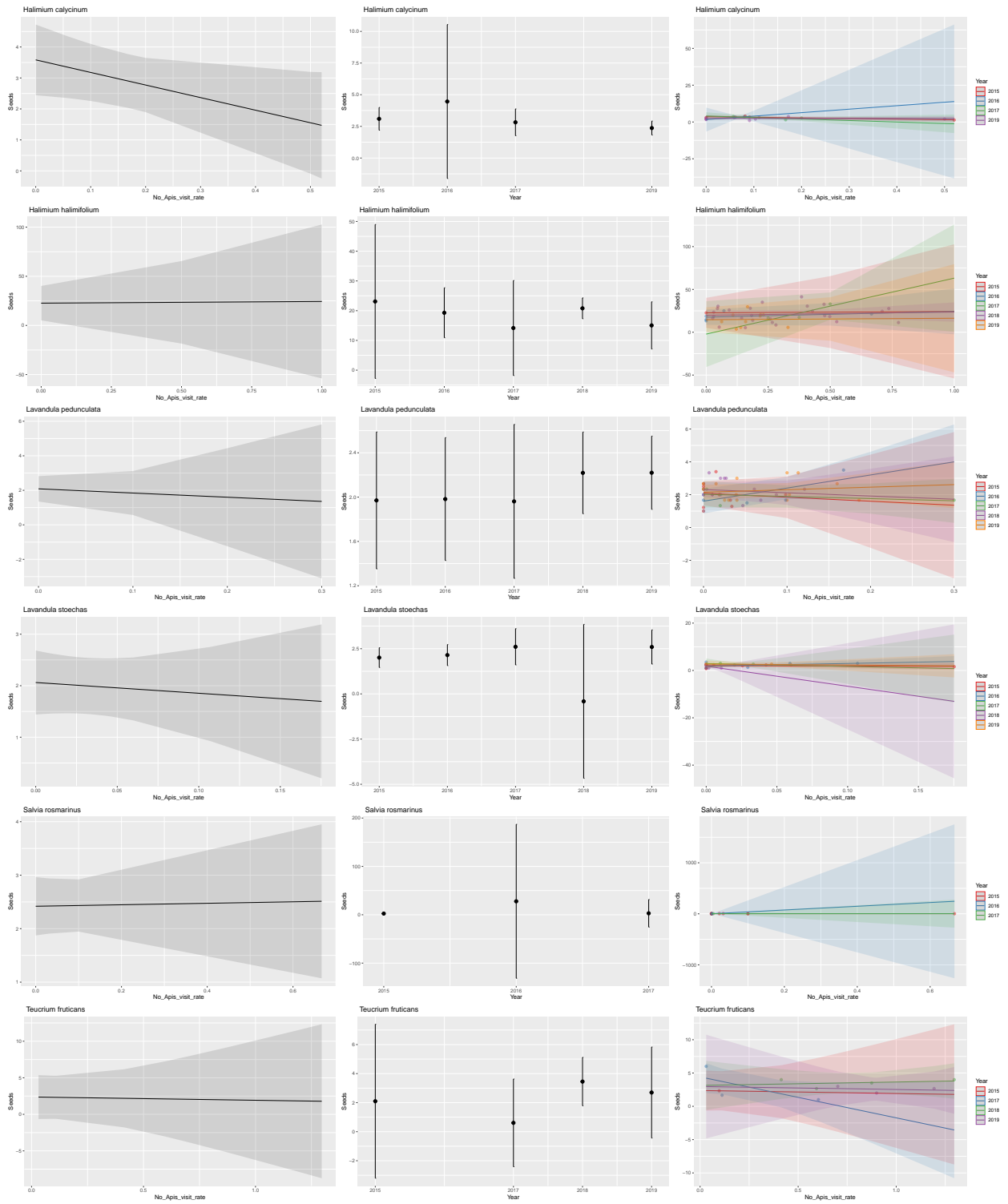
Year2018	0.7559	2.4954	0.3029	0.7771
Year2019	0.6006	3.9893	0.1506	0.8876
No_Apis_visit_rate:Year2017	-5.6960	5.5058	-1.0345	0.3593
No_Apis_visit_rate:Year2018	0.9674	4.8615	0.1990	0.8520
No_Apis_visit_rate:Year2019	NA	NA	NA	NA



Predicted values of Seeds

Cistus monspeliensis - *Halimium halimifolium* - *Teucrium fruticans* Warning message: In predict.lm(model, newdata = fitfram, type = "response", se.fit = se,): prediction from a rank-deficient fit may be misleading





B- linear mixed model with site ID like random factor

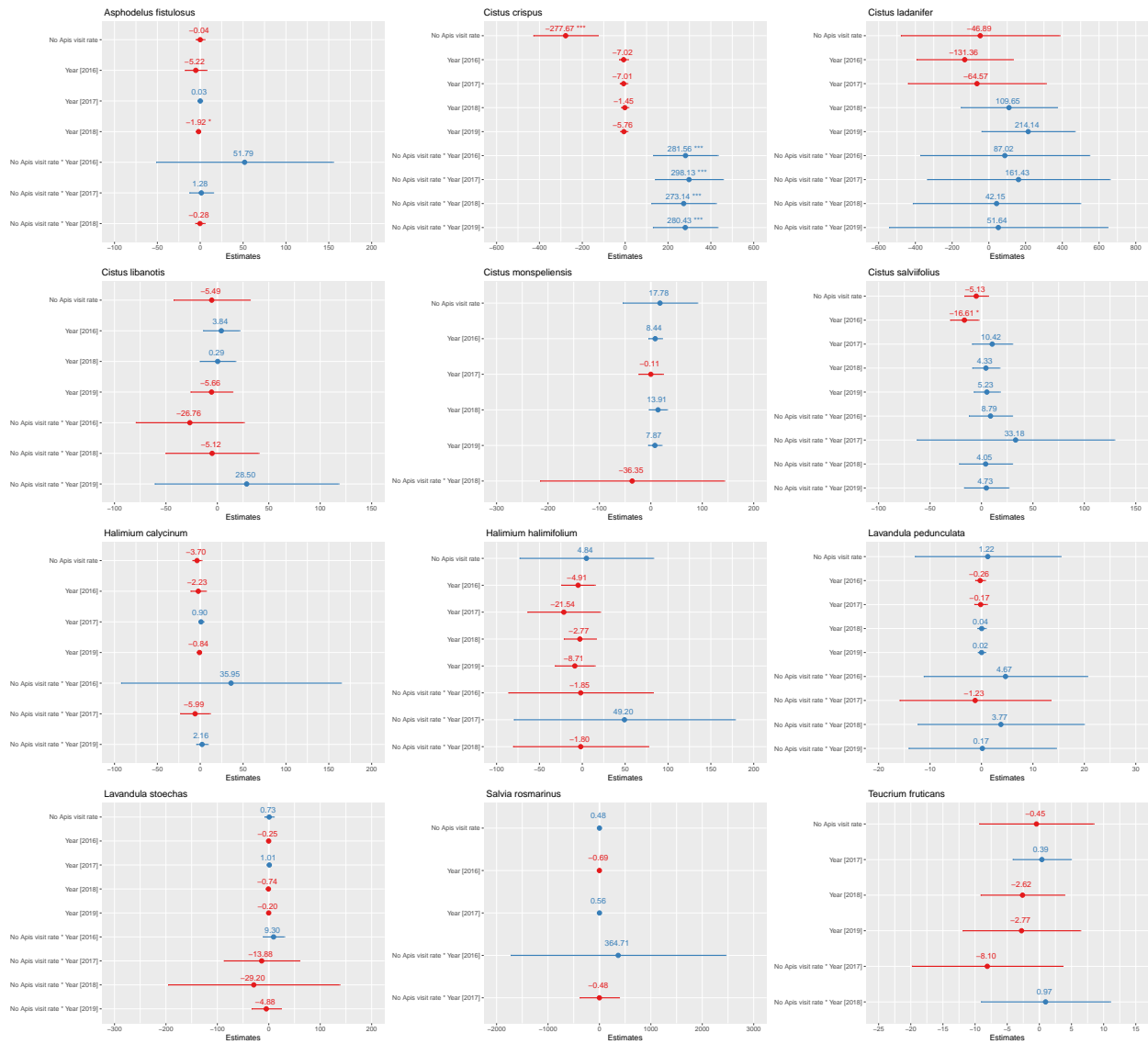
Warning messages:Some predictor variables are on very different scales: consider rescaling. The warning occurred in *Salvia rosmarinus* No_Apis_visit_rate:Year2016 -> 364.706 (Estimate); 813.126 (std.error)

elimana algunos valores de interacciones en *C.monspeliensis*, *H.halimifolium* y *T.fruticans*: fixed-effect model matrix is rank deficient so dropping 3 columns / coefficients - 1 column / coefficient - 1 column / coefficient

Plant_gen_sp	term	estimate	std.error	statistic	df	p.value
Asphodelus fistulosus	(Intercept)	4.1658	0.9972	4.1774	2.4518	0.0367
	No_Apis_visit_rate	-0.0401	1.9637	-0.0204	5.2988	0.9845
	Year2016	-5.2241	4.8849	-1.0694	4.9833	0.3339
	Year2017	0.0346	0.8953	0.0387	5.0158	0.9706
	Year2018	-1.9165	0.6702	-2.8597	5.0446	0.0351
	No_Apis_visit_rate:Year2016	51.7901	40.1421	1.2902	4.9800	0.2536
	No_Apis_visit_rate:Year2017	1.2816	5.3792	0.2382	5.0216	0.8211
	No_Apis_visit_rate:Year2018	-0.2847	2.0953	-0.1359	5.2598	0.8970
Cistus crispus	(Intercept)	37.8390	8.0430	4.7046	58.4167	0.0000
	No_Apis_visit_rate	-277.6667	75.1335	-3.6956	51.6214	0.0005
	Year2016	-7.0197	10.3699	-0.6769	57.0931	0.5012
	Year2017	-7.0138	8.8877	-0.7892	54.7069	0.4334
	Year2018	-1.4484	8.3497	-0.1735	57.2102	0.8629
	Year2019	-5.7641	8.3690	-0.6887	55.4143	0.4939
	No_Apis_visit_rate:Year2016	281.5621	75.2621	3.7411	51.6366	0.0005
	No_Apis_visit_rate:Year2017	298.1328	79.1415	3.7671	51.8116	0.0004
	No_Apis_visit_rate:Year2018	273.1426	75.1962	3.6324	51.6496	0.0006
	No_Apis_visit_rate:Year2019	280.4338	75.3447	3.7220	51.6837	0.0005
Cistus ladanifer	(Intercept)	397.0391	91.5676	4.3360	37.4518	0.0001
	No_Apis_visit_rate	-46.8937	213.9252	-0.2192	42.4626	0.8275
	Year2016	-131.3644	129.9522	-1.0109	42.9655	0.3177
	Year2017	-64.5690	185.8381	-0.3474	42.6044	0.7300
	Year2018	109.6493	129.7100	0.8453	42.9618	0.4026
	Year2019	214.1432	125.5693	1.7054	42.9599	0.0953
	No_Apis_visit_rate:Year2016	87.0160	227.9782	0.3817	42.3616	0.7046
	No_Apis_visit_rate:Year2017	161.4350	246.0506	0.6561	42.5187	0.5153
	No_Apis_visit_rate:Year2018	42.1495	225.7647	0.1867	40.7446	0.8528
	No_Apis_visit_rate:Year2019	51.6448	294.3838	0.1754	39.4346	0.8616
Cistus libanotis	(Intercept)	17.4970	5.3892	3.2467	8.0000	0.0118
	No_Apis_visit_rate	-5.4939	15.1547	-0.3625	8.0000	0.7264
	Year2016	3.8364	7.2028	0.5326	8.0000	0.6088
	Year2018	0.2884	7.0482	0.0409	8.0000	0.9684
	Year2019	-5.6591	8.3043	-0.6815	8.0000	0.5148
	No_Apis_visit_rate:Year2016	-26.7561	21.4682	-1.2463	8.0000	0.2479
	No_Apis_visit_rate:Year2018	-5.1178	18.4762	-0.2770	8.0000	0.7888
	No_Apis_visit_rate:Year2019	28.4953	36.5041	0.7806	8.0000	0.4575
Cistus monspeliensis	(Intercept)	5.1733	4.8786	1.0604	2.4106	0.3835
	No_Apis_visit_rate	17.7753	16.8769	1.0532	3.2237	0.3647
	Year2016	8.4376	3.0878	2.7326	3.0049	0.0717
	Year2017	-0.1055	5.4940	-0.0192	3.0135	0.9859
	Year2018	13.9089	4.0961	3.3957	3.0432	0.0417
	Year2019	7.8680	3.0205	2.6048	3.2471	0.0738
	No_Apis_visit_rate:Year2018	-36.3549	41.6018	-0.8739	3.0370	0.4458
Cistus salviifolius	(Intercept)	37.3889	4.6036	8.1217	56.0000	0.0000

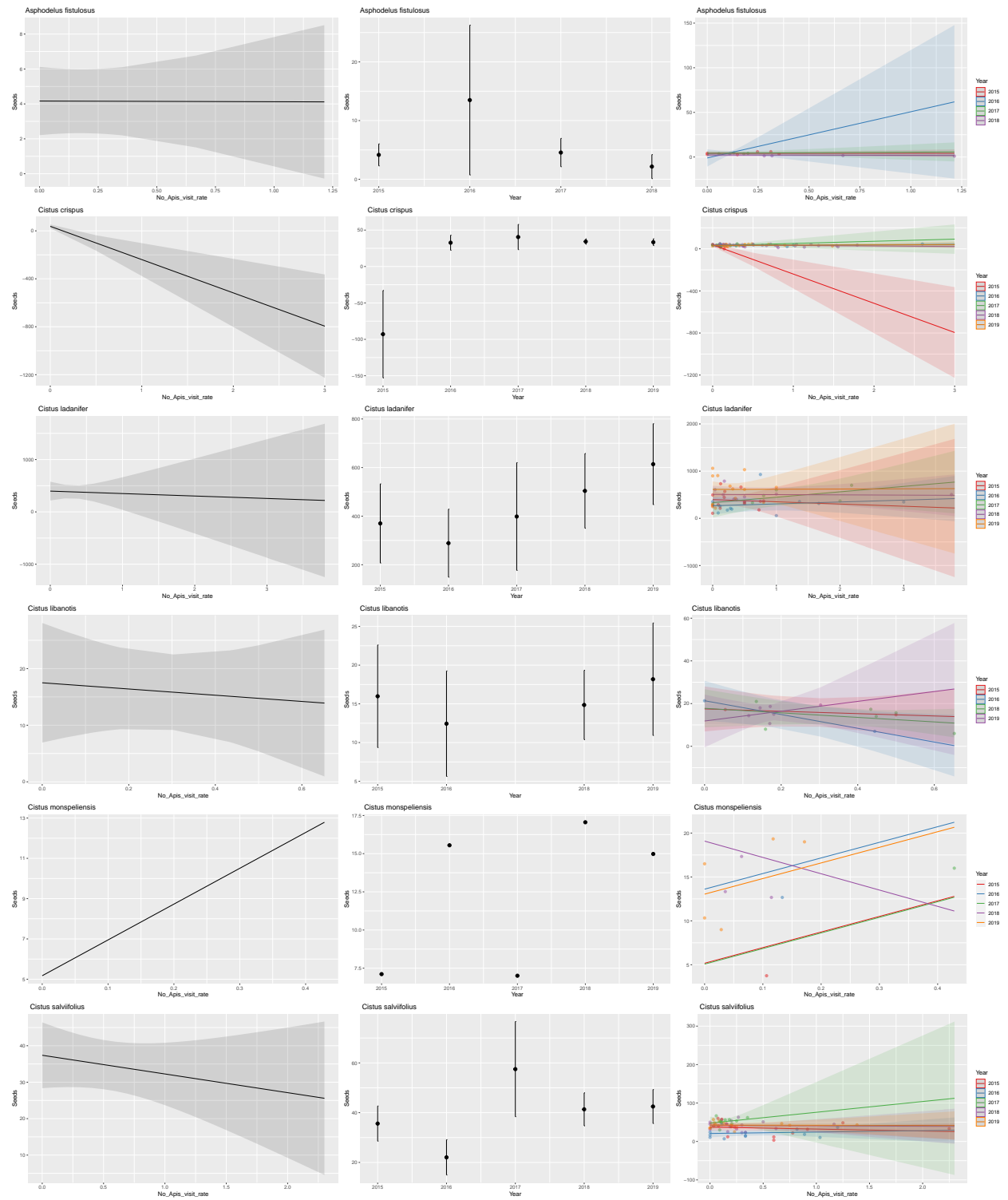
Halimium calycinum	No_Apis_visit_rate	-5.1306	5.7543	-0.8916	56.0000	0.3764
	Year2016	-16.6129	6.8632	-2.4206	56.0000	0.0188
	Year2017	10.4164	9.7425	1.0692	56.0000	0.2896
	Year2018	4.3263	6.5915	0.6563	56.0000	0.5143
	Year2019	5.2261	6.3158	0.8275	56.0000	0.4115
	No_Apis_visit_rate:Year2016	8.7896	10.4987	0.8372	56.0000	0.4060
	No_Apis_visit_rate:Year2017	33.1780	47.8802	0.6929	56.0000	0.4912
	No_Apis_visit_rate:Year2018	4.0486	12.8569	0.3149	56.0000	0.7540
	No_Apis_visit_rate:Year2019	4.7310	10.7752	0.4391	56.0000	0.6623
	(Intercept)	3.3956	0.6430	5.2812	7.3605	0.0010
Halimium halimifolium	No_Apis_visit_rate	-3.7028	2.3163	-1.5986	7.3553	0.1519
	Year2016	-2.2293	3.9514	-0.5642	8.5339	0.5871
	Year2017	0.9030	1.3379	0.6749	9.7342	0.5154
	Year2019	-0.8393	0.6892	-1.2177	10.9569	0.2489
	No_Apis_visit_rate:Year2016	35.9536	56.7016	0.6341	9.1775	0.5415
	No_Apis_visit_rate:Year2017	-5.9882	7.6525	-0.7825	7.3428	0.4584
	No_Apis_visit_rate:Year2019	2.1560	2.9576	0.7290	10.4747	0.4820
	(Intercept)	22.7178	8.7949	2.5831	35.3831	0.0141
	No_Apis_visit_rate	4.8385	38.3693	0.1261	35.2746	0.9004
	Year2016	-4.9087	9.6189	-0.5103	31.5665	0.6134
Lavandula pedunculata	Year2017	-21.5404	20.8342	-1.0339	32.9598	0.3087
	Year2018	-2.7675	9.2364	-0.2996	34.9235	0.7662
	Year2019	-8.7104	11.4375	-0.7616	35.1539	0.4514
	No_Apis_visit_rate:Year2016	-1.8511	41.4638	-0.0446	35.5566	0.9646
	No_Apis_visit_rate:Year2017	49.2048	63.4438	0.7756	35.7646	0.4431
	No_Apis_visit_rate:Year2018	-1.7998	38.7997	-0.0464	34.4775	0.9633
	(Intercept)	2.0936	0.3683	5.6845	33.3879	0.0000
	No_Apis_visit_rate	1.2230	6.9893	0.1750	34.2573	0.8621
	Year2016	-0.2611	0.4708	-0.5547	38.0464	0.5824
	Year2017	-0.1667	0.6053	-0.2754	18.7336	0.7860
Lavandula stoechas	Year2018	0.0364	0.3974	0.0915	37.4902	0.9276
	Year2019	0.0198	0.3540	0.0559	33.2049	0.9557
	No_Apis_visit_rate:Year2016	4.6726	7.8449	0.5956	33.7622	0.5554
	No_Apis_visit_rate:Year2017	-1.2328	7.2453	-0.1702	35.8528	0.8658
	No_Apis_visit_rate:Year2018	3.7699	7.9748	0.4727	33.9858	0.6394
	No_Apis_visit_rate:Year2019	0.1651	7.0692	0.0233	32.7239	0.9815
	(Intercept)	2.0038	0.3869	5.1793	8.5102	0.0007
	No_Apis_visit_rate	0.7347	4.1372	0.1776	11.5298	0.8621
	Year2016	-0.2514	0.5454	-0.4609	12.1777	0.6530
	Year2017	1.0118	0.9500	1.0650	13.7987	0.3052
Salvia rosmarinus	Year2018	-0.7445	0.6590	-1.1299	13.7063	0.2779
	Year2019	-0.1957	0.7730	-0.2532	13.9557	0.8038
	No_Apis_visit_rate:Year2016	9.2971	9.4967	0.9790	13.9120	0.3443
	No_Apis_visit_rate:Year2017	-13.8756	33.6983	-0.4118	9.0229	0.6901
	No_Apis_visit_rate:Year2018	-29.1991	76.4757	-0.3818	11.2951	0.7097
	No_Apis_visit_rate:Year2019	-4.8816	13.1015	-0.3726	9.2043	0.7179
	(Intercept)	2.4411	0.3257	7.4940	4.1242	0.0015
	No_Apis_visit_rate	0.4790	1.0414	0.4600	4.5014	0.6669
	Year2016	-0.6890	1.1927	-0.5777	6.6006	0.5827
	Year2017	0.5589	0.8416	0.6640	5.0610	0.5357
Teucrium fruticans	No_Apis_visit_rate:Year2016	364.7062	813.1264	0.4485	3.1552	0.6828
	No_Apis_visit_rate:Year2017	-0.4790	148.4445	-0.0032	3.1552	0.9976
	(Intercept)	4.0643	1.9579	2.0759	1.3351	0.2332
	No_Apis_visit_rate	-0.4535	2.0665	-0.2195	3.0000	0.8404

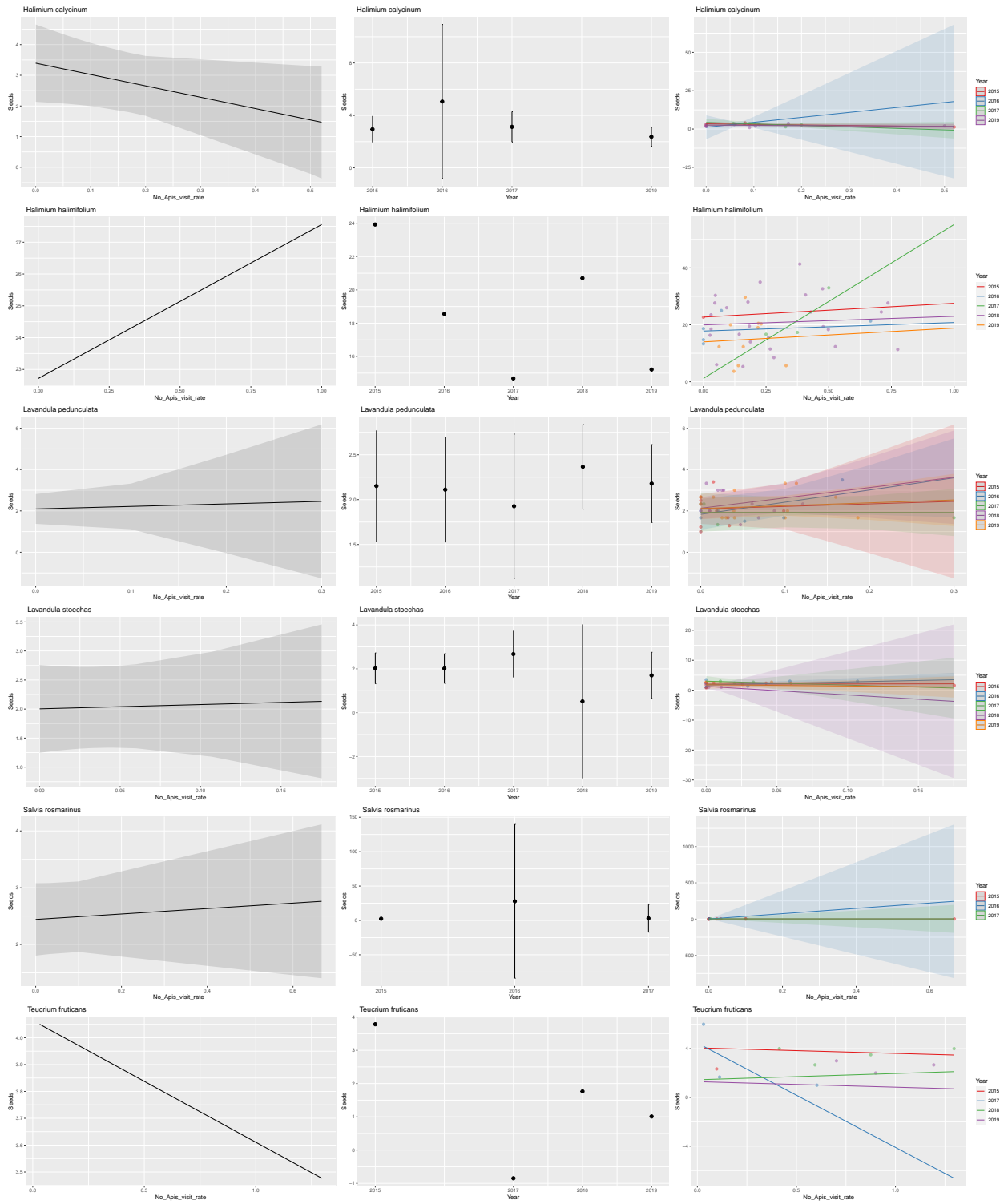
Year2017	0.3911	1.0525	0.3716	3.0827	0.7343
Year2018	-2.6178	1.5125	-1.7308	3.1668	0.1771
Year2019	-2.7730	2.1261	-1.3043	3.0846	0.2809
No_Apis_visit_rate:Year2017	-8.1016	2.7240	-2.9742	3.0262	0.0582
No_Apis_visit_rate:Year2018	0.9674	2.3339	0.4145	3.0000	0.7064



Predicted values of Seeds

C.monspelienis, *H.halimifolium* y *T.fruticans* Could not compute variance-covariance matrix of predictions.
No confidence intervals are returned





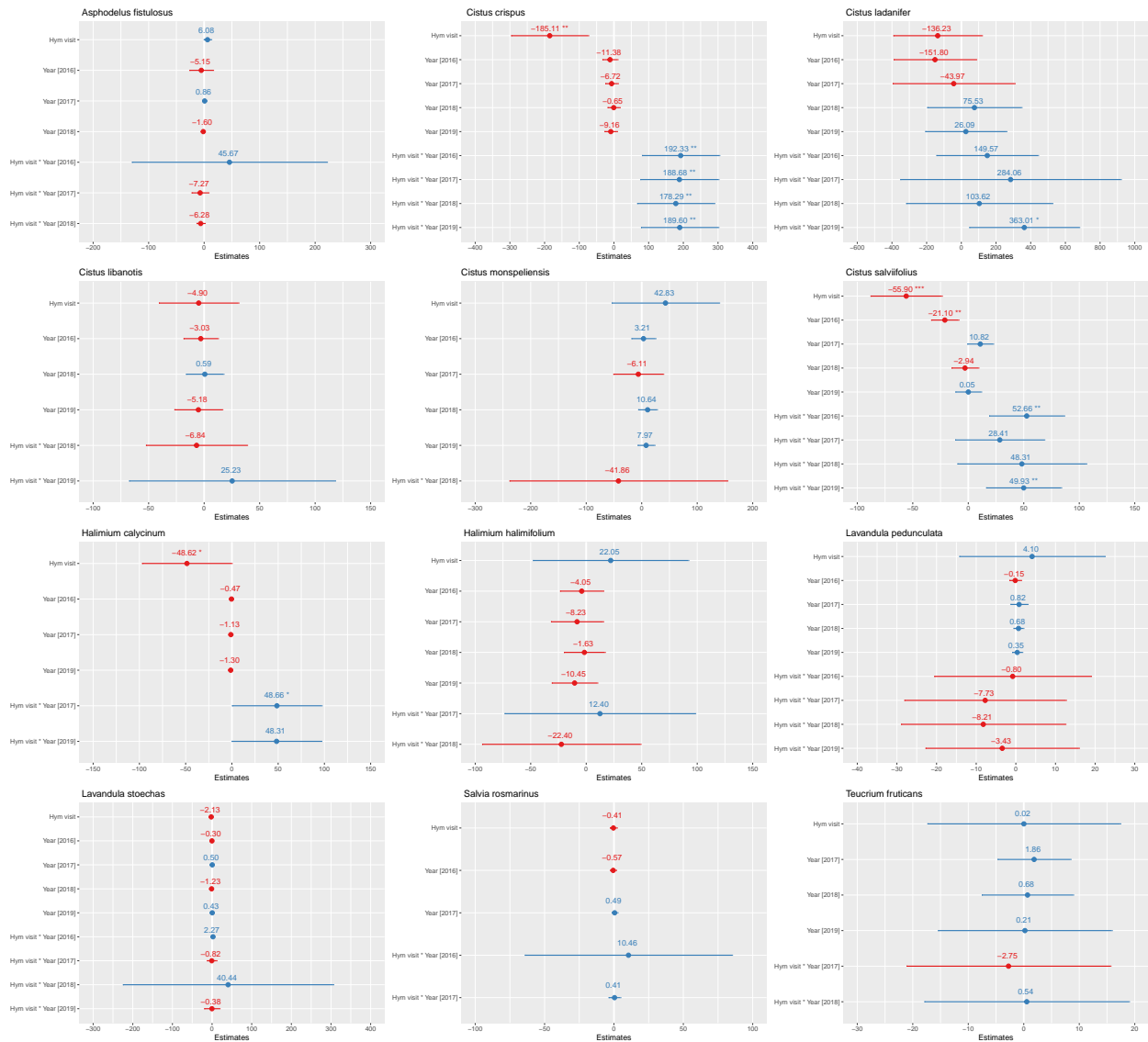
Visitation rate of hymenoptera

A- linear model: $\text{lm}(\text{Seeds} \sim \text{No_Apis_visitatio_rate} * \text{Year})$

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	3.0691	0.6615	4.6396	0.0024
	Hym_visit	6.0776	2.8766	2.1128	0.0725
	Year2016	-5.1525	9.0224	-0.5711	0.5858
	Year2017	0.8645	1.5663	0.5520	0.5981
	Year2018	-1.5998	1.2322	-1.2984	0.2353
	Hym_visit:Year2016	45.6724	74.3228	0.6145	0.5583
	Hym_visit:Year2017	-7.2655	6.4326	-1.1295	0.2959
	Hym_visit:Year2018	-6.2772	3.1700	-1.9802	0.0882
Cistus crispus	(Intercept)	39.6667	8.4189	4.7116	0.0000
	Hym_visit	-185.1111	55.5622	-3.3316	0.0015
	Year2016	-11.3814	10.9583	-1.0386	0.3032
	Year2017	-6.7215	9.0907	-0.7394	0.4626
	Year2018	-0.6480	8.7908	-0.0737	0.9415
	Year2019	-9.1615	9.0549	-1.0118	0.3157
	Hym_visit:Year2016	192.3306	55.8208	3.4455	0.0010
	Hym_visit:Year2017	188.6802	56.3566	3.3480	0.0014
	Hym_visit:Year2018	178.2879	55.6333	3.2047	0.0022
	Hym_visit:Year2019	189.5972	55.7995	3.3978	0.0012
Cistus ladanifer	(Intercept)	441.6417	79.6355	5.5458	0.0000
	Hym_visit	-136.2288	126.6794	-1.0754	0.2882
	Year2016	-151.7979	118.1623	-1.2847	0.2058
	Year2017	-43.9660	174.5155	-0.2519	0.8023
	Year2018	75.5293	134.8053	0.5603	0.5782
	Year2019	26.0926	115.9964	0.2249	0.8231
	Hym_visit:Year2016	149.5747	145.3036	1.0294	0.3090
	Hym_visit:Year2017	284.0601	315.3860	0.9007	0.3728
	Hym_visit:Year2018	103.6191	208.9495	0.4959	0.6225
	Hym_visit:Year2019	363.0065	157.2479	2.3085	0.0258
Cistus libanotis	(Intercept)	17.2000	5.6020	3.0703	0.0133
	Hym_visit	-4.9000	15.8448	-0.3092	0.7642
	Year2016	-3.0333	6.8610	-0.4421	0.6688
	Year2018	0.5929	7.4680	0.0794	0.9385
	Year2019	-5.1796	9.5642	-0.5416	0.6013
	Hym_visit:Year2016	NA	NA	NA	NA
	Hym_visit:Year2018	-6.8352	20.1501	-0.3392	0.7422
	Hym_visit:Year2019	25.2345	41.0296	0.6150	0.5538
Cistus monspeliensis	(Intercept)	3.7500	4.4159	0.8492	0.4436
	Hym_visit	42.8344	34.8828	1.2280	0.2868
	Year2016	3.2054	7.7866	0.4117	0.7017
	Year2017	-6.1076	16.2017	-0.3770	0.7253
	Year2018	10.6414	6.1062	1.7427	0.1563
	Year2019	7.9676	5.4624	1.4586	0.2184
	Hym_visit:Year2016	NA	NA	NA	NA
	Hym_visit:Year2017	NA	NA	NA	NA
	Hym_visit:Year2018	-41.8630	70.7121	-0.5920	0.5857
	Hym_visit:Year2019	NA	NA	NA	NA
Cistus salviifolius	(Intercept)	45.3340	4.2905	10.5661	0.0000
	Hym_visit	-55.9033	16.0472	-3.4837	0.0010
	Year2016	-21.1006	6.1599	-3.4255	0.0012

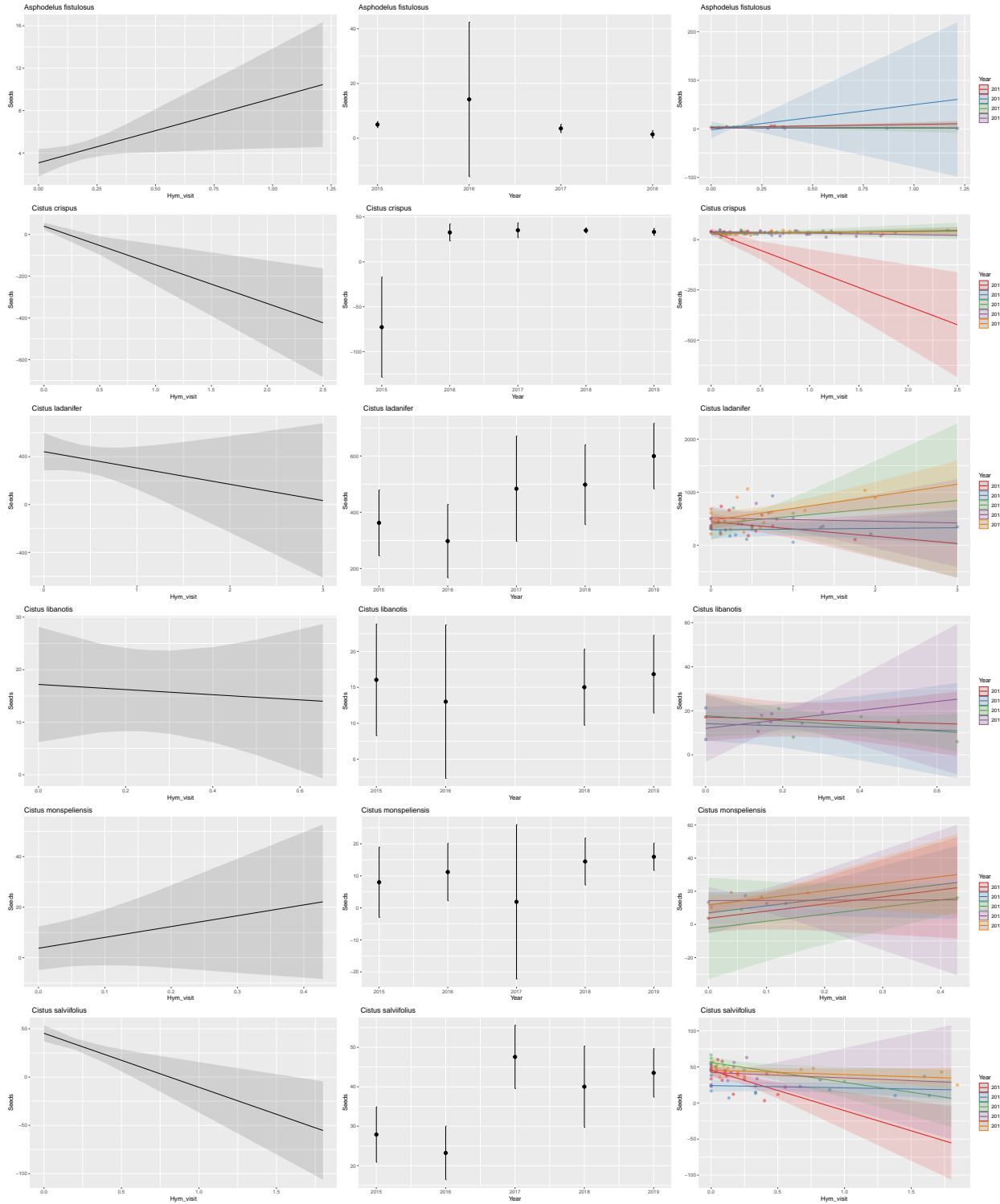
Halimium calycinum	Year2017	10.8185	5.8247	1.8574	0.0685
	Year2018	-2.9419	6.0628	-0.4852	0.6294
	Year2019	0.0530	5.8116	0.0091	0.9928
	Hym_visit:Year2016	52.6573	16.8780	3.1199	0.0029
	Hym_visit:Year2017	28.4084	20.0541	1.4166	0.1621
	Hym_visit:Year2018	48.3084	28.9729	1.6674	0.1010
	Hym_visit:Year2019	49.9319	16.8719	2.9595	0.0045
	(Intercept)	3.7172	0.5779	6.4324	0.0000
	Hym_visit	-48.6195	22.2452	-2.1856	0.0494
	Year2016	-0.4672	0.8421	-0.5549	0.5892
	Year2017	-1.1339	0.8421	-1.3466	0.2030
	Year2019	-1.2950	0.6687	-1.9366	0.0767
	Hym_visit:Year2016	NA	NA	NA	NA
	Hym_visit:Year2017	48.6612	22.2515	2.1869	0.0493
	Hym_visit:Year2019	48.3141	22.2712	2.1694	0.0509
Halimium halimifolium	(Intercept)	22.6667	8.7776	2.5823	0.0139
	Hym_visit	22.0461	34.5408	0.6383	0.5272
	Year2016	-4.0500	9.6153	-0.4212	0.6760
	Year2017	-8.2279	11.5947	-0.7096	0.4824
	Year2018	-1.6258	9.1052	-0.1786	0.8593
	Year2019	-10.4542	10.1341	-1.0316	0.3090
	Hym_visit:Year2016	NA	NA	NA	NA
	Hym_visit:Year2017	12.4029	42.3893	0.2926	0.7715
	Hym_visit:Year2018	-22.3966	35.2338	-0.6357	0.5289
	Hym_visit:Year2019	NA	NA	NA	NA
	(Intercept)	1.8146	0.5221	3.4756	0.0013
	Hym_visit	4.0965	9.0733	0.4515	0.6541
	Year2016	-0.1529	0.7365	-0.2076	0.8366
	Year2017	0.8188	1.0671	0.7673	0.4475
	Year2018	0.6762	0.6170	1.0960	0.2798
Lavandula pedunculata	Year2019	0.3491	0.6381	0.5470	0.5875
	Hym_visit:Year2016	-0.7980	9.7776	-0.0816	0.9354
	Hym_visit:Year2017	-7.7336	10.0757	-0.7675	0.4474
	Hym_visit:Year2018	-8.2124	10.2511	-0.8011	0.4279
	Hym_visit:Year2019	-3.4301	9.5659	-0.3586	0.7218
	(Intercept)	2.4100	0.4079	5.9080	0.0000
	Hym_visit	-2.1292	1.5177	-1.4029	0.1824
	Year2016	-0.2978	0.5346	-0.5570	0.5863
	Year2017	0.4959	0.7582	0.6540	0.5237
	Year2018	-1.2286	1.0491	-1.1711	0.2611
	Year2019	0.4267	1.1757	0.3629	0.7221
	Hym_visit:Year2016	2.2695	1.5783	1.4380	0.1724
	Hym_visit:Year2017	-0.8201	5.6602	-0.1449	0.8869
	Hym_visit:Year2018	40.4378	123.7121	0.3269	0.7486
	Hym_visit:Year2019	-0.3761	9.0517	-0.0416	0.9674
Salvia rosmarinus	(Intercept)	2.5116	0.3234	7.7651	0.0001
	Hym_visit	-0.4070	1.0878	-0.3741	0.7194
	Year2016	-0.5731	0.9439	-0.6071	0.5630
	Year2017	0.4884	0.9135	0.5346	0.6095
	Hym_visit:Year2016	10.4627	31.5853	0.3313	0.7501
	Hym_visit:Year2017	0.4070	1.7943	0.2268	0.8270
	(Intercept)	2.3309	1.8898	1.2335	0.2849
	Hym_visit	0.0184	6.2583	0.0029	0.9978
	Year2017	1.8633	2.3695	0.7864	0.4756
	Year2018				
	Year2019				
	Hym_visit:Year2016				
	Hym_visit:Year2017				
	Hym_visit:Year2018				
	Hym_visit:Year2019				
Teucrium fruticans	(Intercept)	2.3309	1.8898	1.2335	0.2849
	Hym_visit	0.0184	6.2583	0.0029	0.9978
	Year2017	1.8633	2.3695	0.7864	0.4756

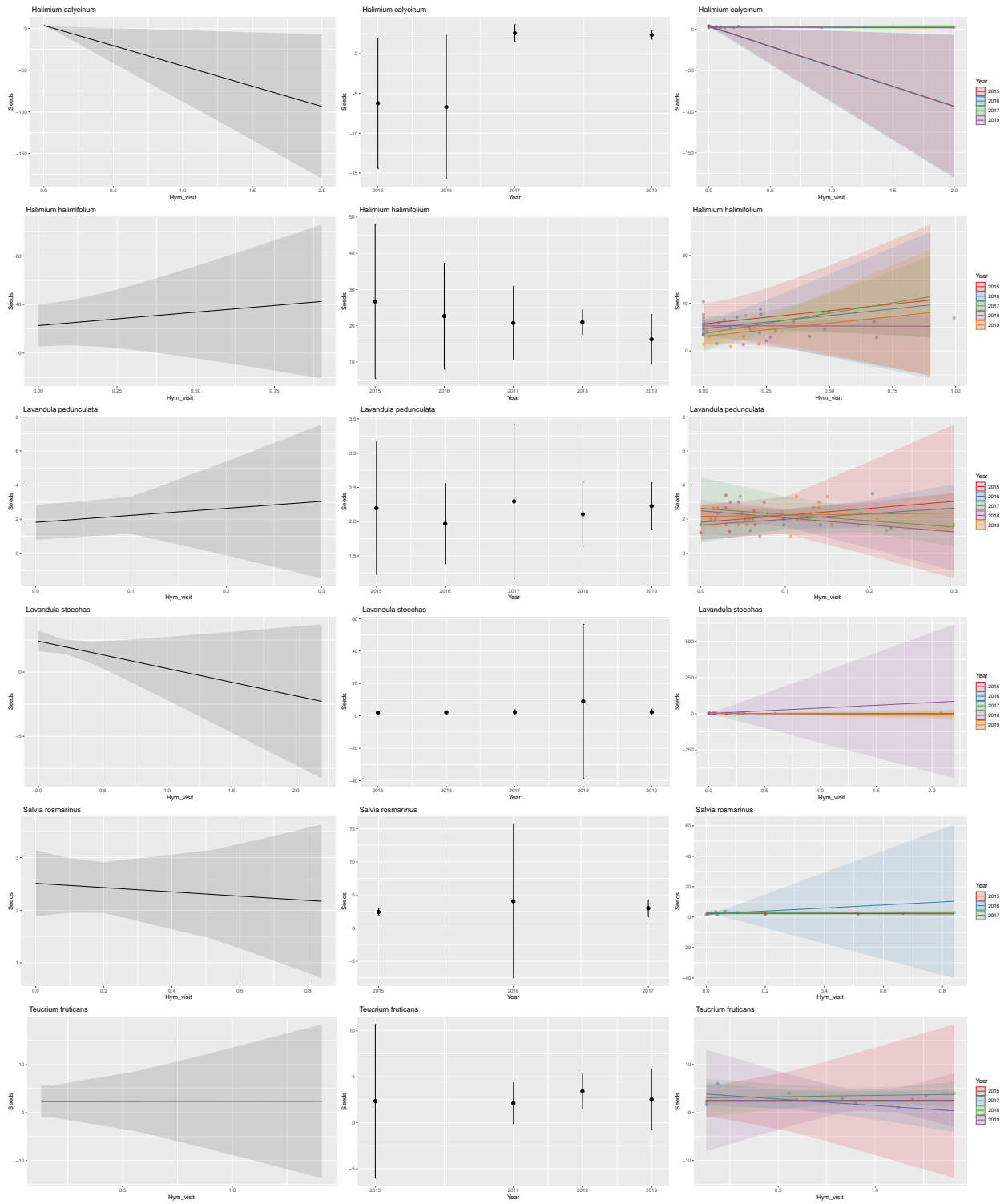
Year2018	0.6790	2.9669	0.2289	0.8302
Year2019	0.2067	5.6401	0.0366	0.9725
Hym_visit:Year2017	-2.7473	6.6224	-0.4149	0.6995
Hym_visit:Year2018	0.5380	6.6406	0.0810	0.9393
Hym_visit:Year2019	NA	NA	NA	NA



Predicted values of Seeds

Cistus libanotis - *Cistus monspeliensis* - *Halimium calycinum* - *Halimium halimifolium* - *Teucrium fruticans*
Warning message: In predict.lm(model, newdata = fitfram, type = "response", se.fit = se, prediction from a rank-deficient fit may be misleading

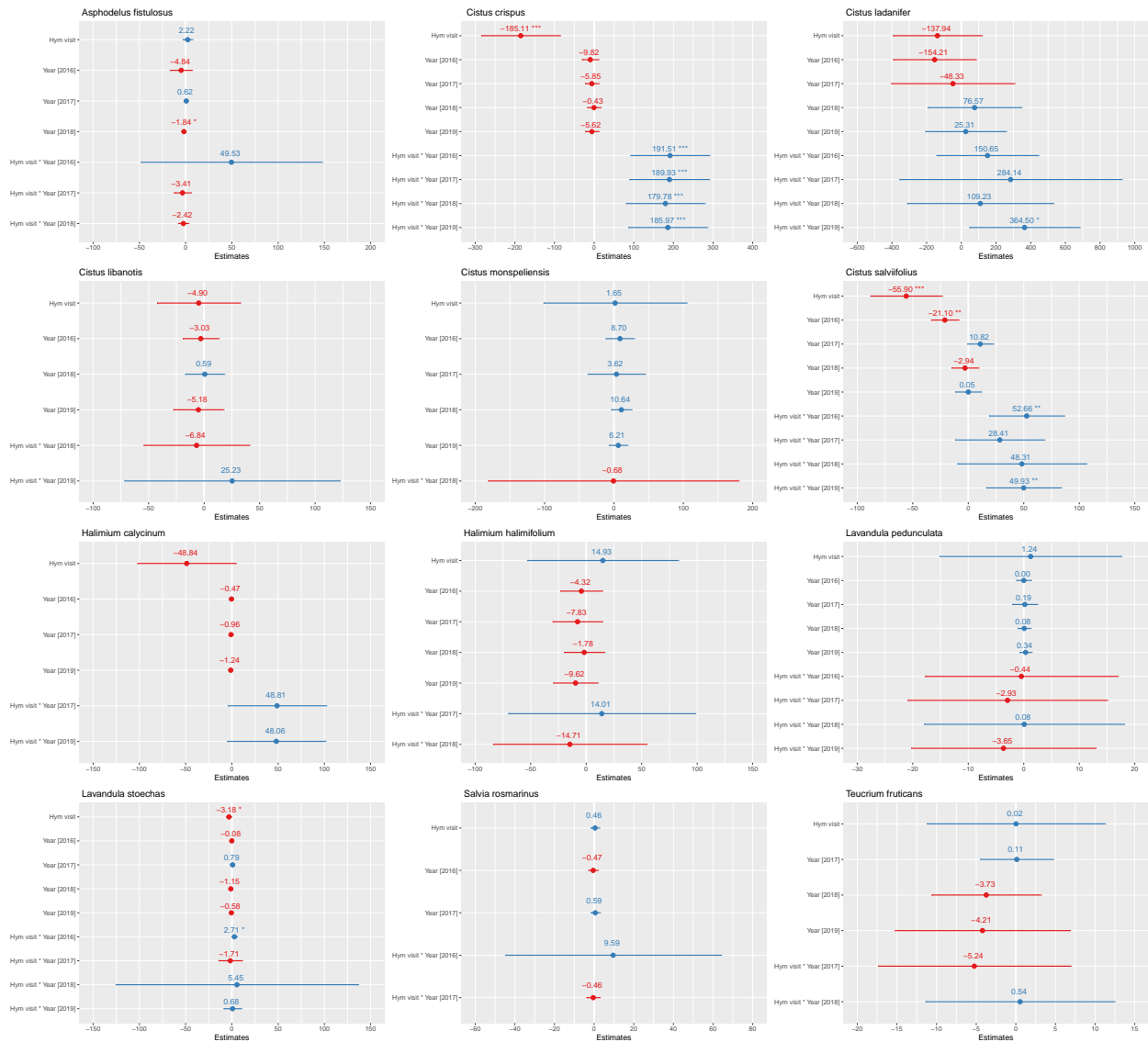




B- linear mixed model with site ID like random factor fixed-effect model matrix is rank deficient so dropping 1 column / coefficient de varia especies

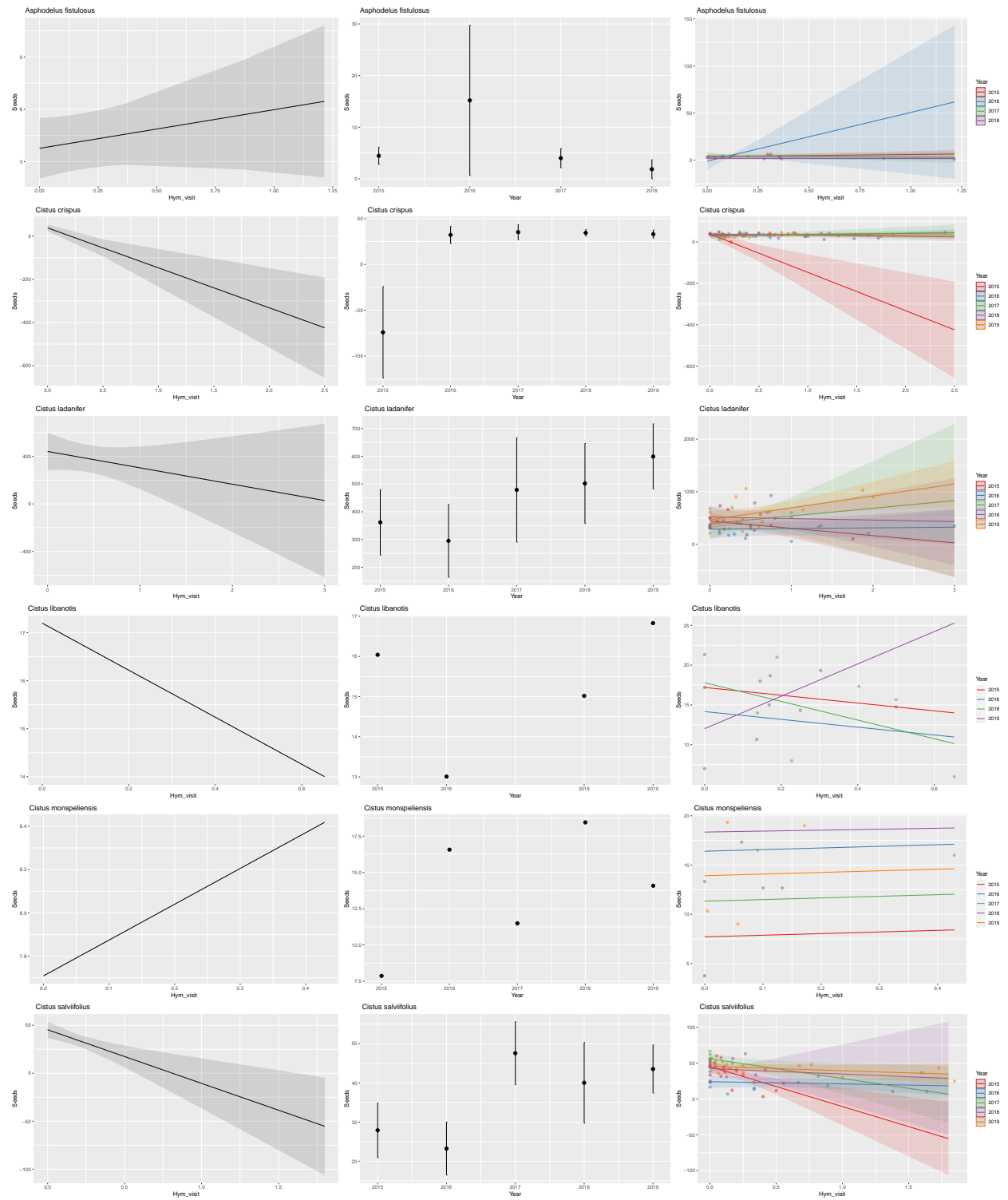
Plant_gen_sp	term	estimate	std.error	statistic	df	p.value
Asphodelus fistulosus	(Intercept)	3.7612	0.8892	4.2300	2.5752	0.0325
	Hym_visit	2.2174	2.0028	1.1071	5.6255	0.3133
	Year2016	-4.8371	4.6373	-1.0431	4.9880	0.3448
	Year2017	0.6224	0.8217	0.7575	5.0250	0.4828
	Year2018	-1.8420	0.6555	-2.8098	5.0499	0.0371
	Hym_visit:Year2016	49.5326	38.1004	1.3001	4.9832	0.2505
	Hym_visit:Year2017	-3.4053	3.5637	-0.9556	5.1851	0.3817
	Hym_visit:Year2018	-2.4170	2.1159	-1.1423	5.5591	0.3001
Cistus crispus	(Intercept)	38.1872	7.9570	4.7992	58.6481	0.0000
	Hym_visit	-185.1111	49.5456	-3.7362	51.4041	0.0005
	Year2016	-9.8199	10.4192	-0.9425	57.8741	0.3499
	Year2017	-5.8478	8.5751	-0.6820	56.6534	0.4980
	Year2018	-0.4303	8.3605	-0.0515	57.9959	0.9591
	Year2019	-5.6180	8.4902	-0.6617	56.3835	0.5109
	Hym_visit:Year2016	191.5114	49.8023	3.8454	51.4642	0.0003
	Hym_visit:Year2017	189.9303	50.3385	3.7731	51.5990	0.0004
Cistus ladanifer	Hym_visit:Year2018	179.7844	49.6265	3.6228	51.4609	0.0007
	Hym_visit:Year2019	185.9677	49.7983	3.7344	51.5162	0.0005
	(Intercept)	442.0829	80.2686	5.5075	35.7131	0.0000
	Hym_visit	-137.9415	126.7957	-1.0879	42.8130	0.2827
	Year2016	-154.2078	117.9014	-1.3079	42.5922	0.1979
	Year2017	-48.3337	175.5632	-0.2753	38.8173	0.7845
	Year2018	76.5661	134.2744	0.5702	41.3385	0.5716
	Year2019	25.3085	115.2774	0.2195	39.2547	0.8274
Cistus libanotis	Hym_visit:Year2016	150.6523	145.4121	1.0360	42.8450	0.3060
	Hym_visit:Year2017	284.1378	317.5812	0.8947	37.8264	0.3766
	Hym_visit:Year2018	109.2322	208.6271	0.5236	42.7856	0.6033
	Hym_visit:Year2019	364.4984	157.3937	2.3158	42.8470	0.0254
	(Intercept)	17.2000	5.6020	3.0703	9.0000	0.0133
	Hym_visit	-4.9000	15.8448	-0.3092	9.0000	0.7642
	Year2016	-3.0333	6.8610	-0.4421	9.0000	0.6688
	Year2018	0.5929	7.4680	0.0794	9.0000	0.9385
Cistus monspeliensis	Year2019	-5.1796	9.5642	-0.5416	9.0000	0.6013
	Hym_visit:Year2018	-6.8352	20.1501	-0.3392	9.0000	0.7422
	Hym_visit:Year2019	25.2345	41.0296	0.6150	9.0000	0.5538
	(Intercept)	7.7097	5.0363	1.5308	1.6186	0.2927
	Hym_visit	1.6517	23.9710	0.0689	3.2289	0.9491
	Year2016	8.6964	4.7363	1.8361	3.1048	0.1606
	Year2017	3.6227	9.6452	0.3756	3.0794	0.7316
	Year2018	10.6414	3.4177	3.1136	3.0000	0.0527
Cistus salviifolius	Year2019	6.2115	3.1143	1.9945	3.0248	0.1393
	Hym_visit:Year2018	-0.6803	41.9504	-0.0162	3.0752	0.9881
	(Intercept)	45.3340	4.2905	10.5661	56.0000	0.0000
	Hym_visit	-55.9033	16.0472	-3.4837	56.0000	0.0010
	Year2016	-21.1006	6.1599	-3.4255	56.0000	0.0012
	Year2017	10.8185	5.8247	1.8574	56.0000	0.0685
	Year2018	-2.9419	6.0628	-0.4852	56.0000	0.6294
	Year2019	0.0530	5.8116	0.0091	56.0000	0.9928
	Hym_visit:Year2016	52.6573	16.8780	3.1199	56.0000	0.0029

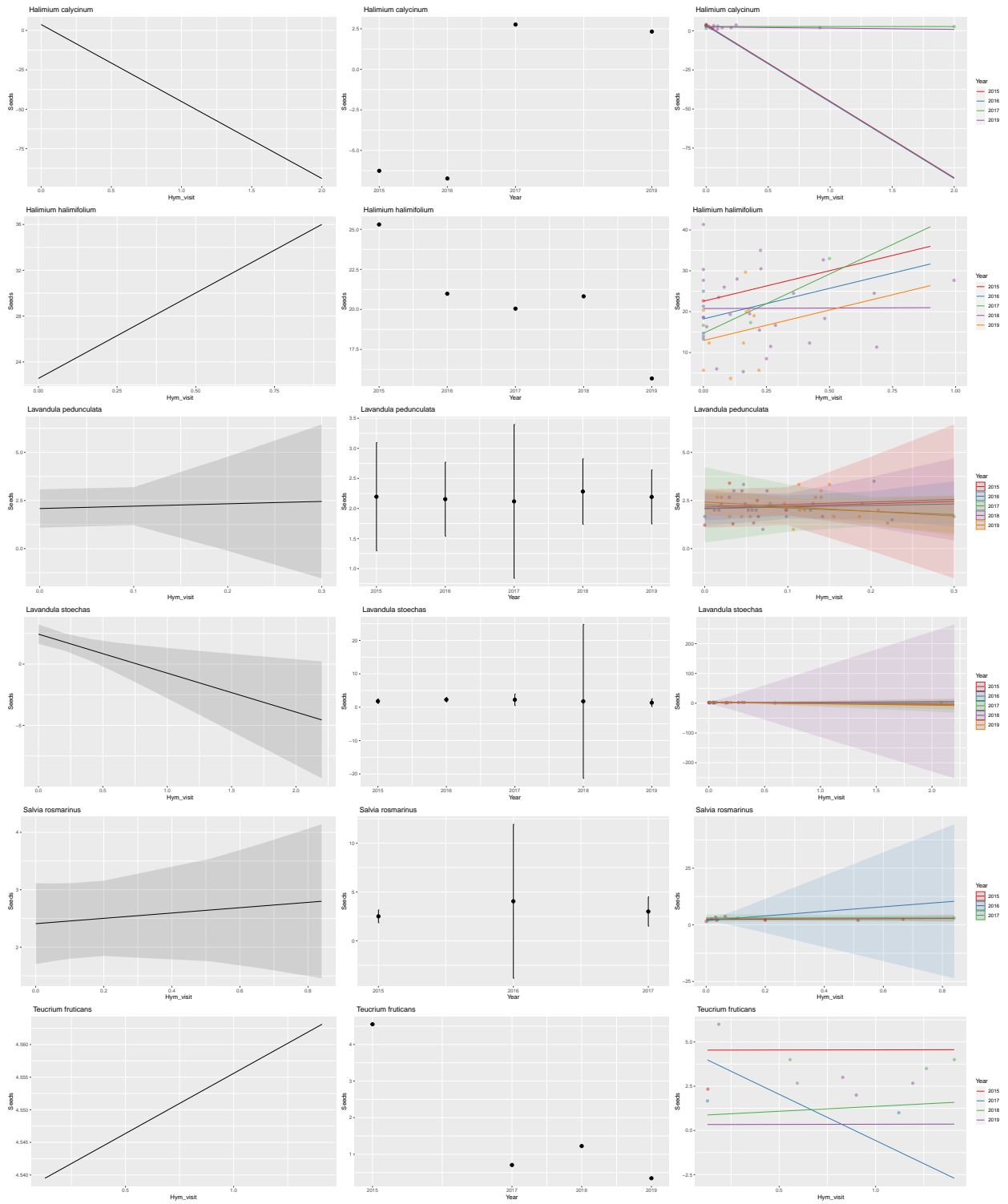
Halimium calycinum	Hym_visit:Year2017	28.4084	20.0541	1.4166	56.0000	0.1621
	Hym_visit:Year2018	48.3084	28.9729	1.6674	56.0000	0.1010
	Hym_visit:Year2019	49.9319	16.8719	2.9595	56.0000	0.0045
	(Intercept)	3.7304	0.6478	5.7588	5.0294	0.0022
	Hym_visit	-48.8413	23.8798	-2.0453	6.6559	0.0822
	Year2016	-0.4734	0.8724	-0.5426	9.8346	0.5995
	Year2017	-0.9628	0.8871	-1.0854	8.9994	0.3060
	Year2019	-1.2422	0.7283	-1.7056	6.6984	0.1338
Halimium halimifolium	Hym_visit:Year2017	48.8120	23.8850	2.0436	6.6599	0.0823
	Hym_visit:Year2019	48.0564	23.9086	2.0100	6.6696	0.0864
	(Intercept)	22.5575	8.6533	2.6068	36.3702	0.0132
	Hym_visit	14.9331	33.5039	0.4457	34.1327	0.6586
	Year2016	-4.3247	9.2724	-0.4664	32.9915	0.6440
	Year2017	-7.8308	11.0325	-0.7098	31.0441	0.4831
	Year2018	-1.7831	8.9687	-0.1988	35.8564	0.8435
	Year2019	-9.6153	9.8233	-0.9788	33.9164	0.3346
Lavandula pedunculata	Hym_visit:Year2017	14.0092	41.5414	0.3372	35.6985	0.7379
	Hym_visit:Year2018	-14.7084	34.1103	-0.4312	33.8395	0.6691
	(Intercept)	2.0805	0.5073	4.1011	37.9506	0.0002
	Hym_visit	1.2354	8.0791	0.1529	36.0631	0.8793
	Year2016	0.0002	0.6555	0.0003	36.9455	0.9997
	Year2017	0.1945	1.1252	0.1728	25.3226	0.8641
	Year2018	0.0793	0.5828	0.1361	38.4465	0.8925
	Year2019	0.3363	0.5382	0.6249	34.2770	0.5362
Lavandula stoechas	Hym_visit:Year2016	-0.4374	8.5832	-0.0510	35.5761	0.9596
	Hym_visit:Year2017	-2.9272	8.8689	-0.3300	37.9821	0.7432
	Hym_visit:Year2018	0.0783	8.8991	0.0088	36.0220	0.9930
	Hym_visit:Year2019	-3.6541	8.1993	-0.4457	34.7341	0.6586
	(Intercept)	2.4442	0.4078	5.9938	10.5067	0.0001
	Hym_visit	-3.1817	1.1837	-2.6881	12.4703	0.0192
	Year2016	-0.0833	0.3152	-0.2641	10.1896	0.7969
	Year2017	0.7884	0.6806	1.1584	13.3305	0.2670
Salvia rosmarinus	Year2018	-1.1472	0.6979	-1.6439	11.9504	0.1262
	Year2019	-0.5757	0.6781	-0.8489	10.1132	0.4156
	Hym_visit:Year2016	2.7136	1.2061	2.2499	12.4286	0.0433
	Hym_visit:Year2017	-1.7060	5.8575	-0.2912	9.7798	0.7769
	Hym_visit:Year2018	5.4496	60.1847	0.0905	8.8003	0.9299
	Hym_visit:Year2019	0.6764	4.4124	0.1533	8.9189	0.8816
	(Intercept)	2.4091	0.3598	6.6965	4.5470	0.0016
	Hym_visit	0.4636	0.8756	0.5295	3.6504	0.6270
Teucrium fruticans	Year2016	-0.4705	0.9380	-0.5016	5.6813	0.6348
	Year2017	0.5909	0.9243	0.6393	5.4445	0.5486
	Hym_visit:Year2016	9.5921	21.2012	0.4524	2.6341	0.6856
	Hym_visit:Year2017	-0.4636	1.2975	-0.3573	3.0510	0.7441
	(Intercept)	4.5371	2.4504	1.8516	1.2275	0.2782
	Hym_visit	0.0184	2.6139	0.0071	3.0000	0.9948
	Year2017	0.1131	1.0683	0.1059	3.0449	0.9222
	Year2018	-3.7334	1.6013	-2.3316	3.1269	0.0985
	Year2019	-4.2058	2.5647	-1.6399	3.0495	0.1981
	Hym_visit:Year2017	-5.2381	2.8246	-1.8545	3.0130	0.1603
	Hym_visit:Year2018	0.5380	2.7736	0.1940	3.0000	0.8586



Predicted values of Seeds

Cistus libanotis- *Cistus monspeliensis* - *Halimium calycinum* - *Halimium halimifolium* - *Teucrium fruticans*
 Could not compute variance-covariance matrix of predictions. No confidence intervals are returned.





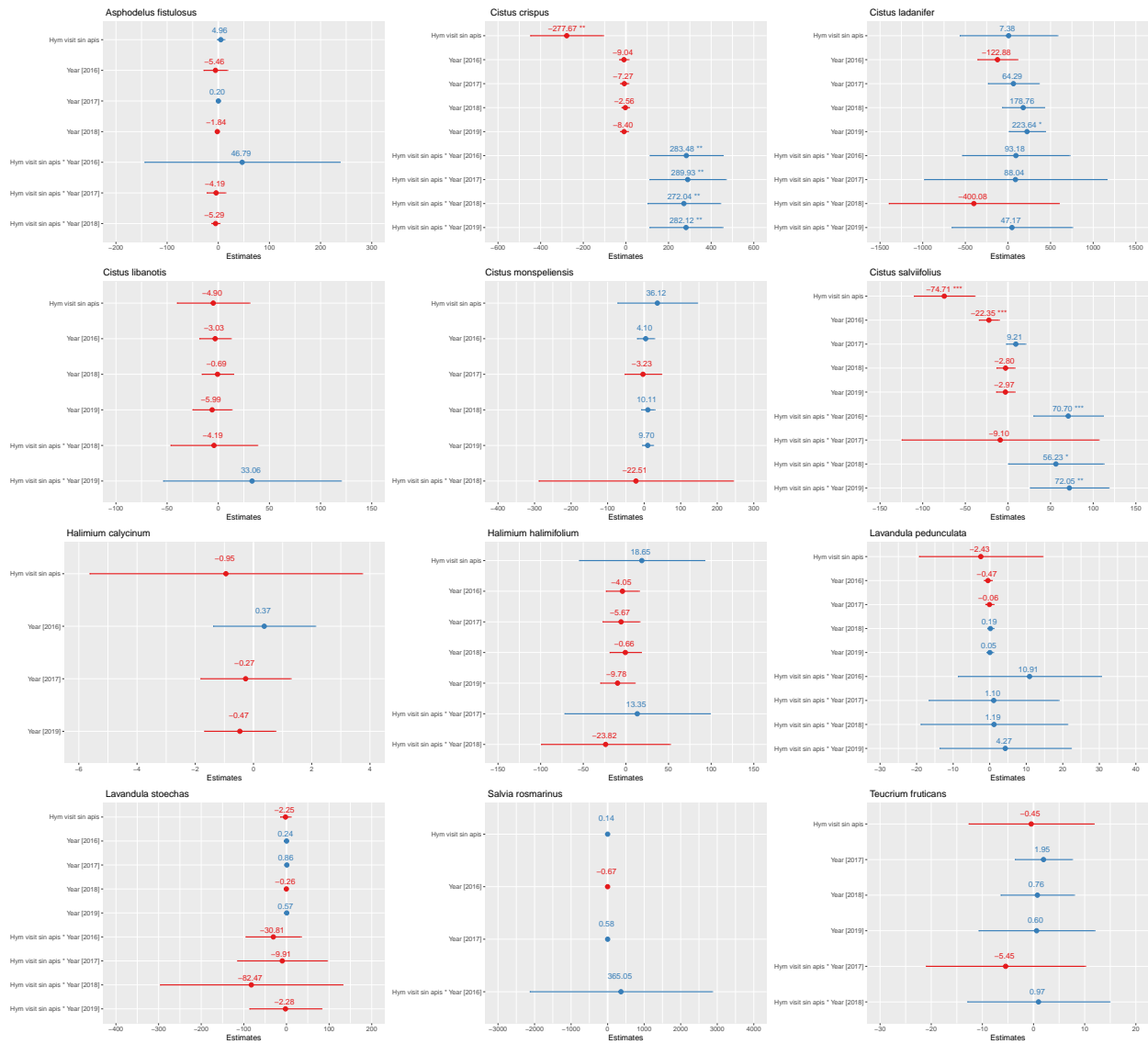
Visitation rate of hymenoptera without A.mellifera

A- linear model: $\text{lm}(\text{Seeds} \sim \text{No_Apis_visitatio_rate} * \text{Year})$

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	3.3735	0.6544	5.1553	0.0013
	Hym_visit_sin_apis	4.9625	3.0048	1.6515	0.1426
	Year2016	-5.4568	9.7874	-0.5575	0.5945
	Year2017	0.1957	1.2785	0.1531	0.8826
	Year2018	-1.8389	1.2492	-1.4721	0.1845
	Hym_visit_sin_apis:Year2016	46.7875	80.6569	0.5801	0.5800
	Hym_visit_sin_apis:Year2017	-4.1932	7.6819	-0.5459	0.6021
	Hym_visit_sin_apis:Year2018	-5.2872	3.3447	-1.5808	0.1579
Cistus crispus	(Intercept)	39.6667	8.6203	4.6015	0.0000
	Hym_visit_sin_apis	-277.6667	85.3371	-3.2538	0.0019
	Year2016	-9.0393	10.8194	-0.8355	0.4068
	Year2017	-7.2653	9.5271	-0.7626	0.4487
	Year2018	-2.5624	8.9036	-0.2878	0.7745
	Year2019	-8.3964	9.0904	-0.9237	0.3594
	Hym_visit_sin_apis:Year2016	283.4800	85.5135	3.3150	0.0016
	Hym_visit_sin_apis:Year2017	289.9336	89.4962	3.2396	0.0020
	Hym_visit_sin_apis:Year2018	272.0425	85.3897	3.1859	0.0023
	Hym_visit_sin_apis:Year2019	282.1239	85.5344	3.2984	0.0016
Cistus ladanifer	(Intercept)	380.5844	75.3580	5.0504	0.0000
	Hym_visit_sin_apis	7.3845	284.2402	0.0260	0.9794
	Year2016	-122.8771	115.8326	-1.0608	0.2947
	Year2017	64.2921	147.9180	0.4346	0.6660
	Year2018	178.7623	122.3993	1.4605	0.1514
	Year2019	223.6364	105.0712	2.1284	0.0391
	Hym_visit_sin_apis:Year2016	93.1831	312.2221	0.2985	0.7668
	Hym_visit_sin_apis:Year2017	88.0408	530.5400	0.1659	0.8690
	Hym_visit_sin_apis:Year2018	-400.0837	494.4333	-0.8092	0.4229
	Hym_visit_sin_apis:Year2019	47.1743	350.3124	0.1347	0.8935
Cistus libanotis	(Intercept)	17.2000	5.5354	3.1072	0.0126
	Hym_visit_sin_apis	-4.9000	15.6566	-0.3130	0.7614
	Year2016	-3.0333	6.7795	-0.4474	0.6651
	Year2018	-0.6940	6.7900	-0.1022	0.9208
	Year2019	-5.9889	8.4439	-0.7093	0.4961
	Hym_visit_sin_apis:Year2016	NA	NA	NA	NA
	Hym_visit_sin_apis:Year2018	-4.1887	18.7415	-0.2235	0.8281
	Hym_visit_sin_apis:Year2019	33.0591	38.3974	0.8610	0.4116
Cistus monspeliensis	(Intercept)	3.7500	4.6960	0.7986	0.4693
	Hym_visit_sin_apis	36.1151	39.2559	0.9200	0.4096
	Year2016	4.1013	8.4558	0.4850	0.6530
	Year2017	-3.2279	18.0873	-0.1785	0.8670
	Year2018	10.1074	6.6036	1.5306	0.2006
	Year2019	9.7035	5.3584	1.8109	0.1444
	Hym_visit_sin_apis:Year2016	NA	NA	NA	NA
	Hym_visit_sin_apis:Year2017	NA	NA	NA	NA
	Hym_visit_sin_apis:Year2018	-22.5065	95.7894	-0.2350	0.8258
	Hym_visit_sin_apis:Year2019	NA	NA	NA	NA
Cistus salviifolius	(Intercept)	45.8526	3.9882	11.4970	0.0000
	Hym_visit_sin_apis	-74.7123	17.7773	-4.2027	0.0001
	Year2016	-22.3525	5.8617	-3.8133	0.0003

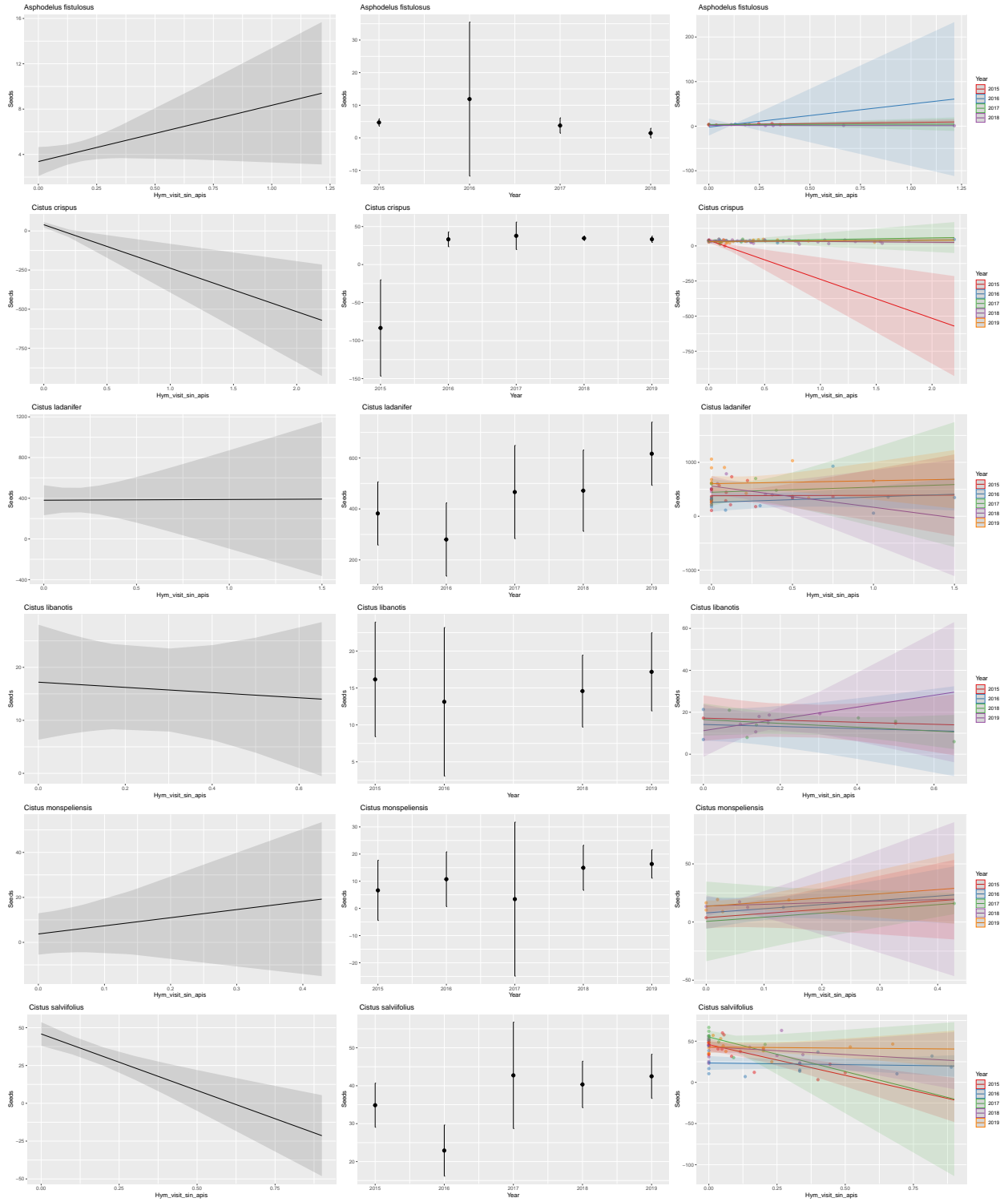
Halimium calycinum	Year2017	9.2070	5.6203	1.6382	0.1070
	Year2018	-2.7954	5.2789	-0.5296	0.5985
	Year2019	-2.9721	5.3897	-0.5514	0.5835
	Hym_visit_sin_apis:Year2016	70.7047	20.3495	3.4745	0.0010
	Hym_visit_sin_apis:Year2017	-9.0977	57.6807	-0.1577	0.8752
	Hym_visit_sin_apis:Year2018	56.2291	27.9405	2.0125	0.0490
	Hym_visit_sin_apis:Year2019	72.0465	22.9924	3.1335	0.0027
	(Intercept)	2.8810	0.4721	6.1019	0.0000
	Hym_visit_sin_apis	-0.9478	2.1819	-0.4344	0.6706
	Year2016	0.3690	0.8178	0.4513	0.6587
	Year2017	-0.2698	0.7212	-0.3742	0.7139
	Year2019	-0.4684	0.5685	-0.8239	0.4238
	Hym_visit_sin_apis:Year2016	NA	NA	NA	NA
	Hym_visit_sin_apis:Year2017	NA	NA	NA	NA
Halimium halimifolium	Hym_visit_sin_apis:Year2019	NA	NA	NA	NA
	(Intercept)	22.6667	8.7242	2.5981	0.0134
	Hym_visit_sin_apis	18.6528	36.2540	0.5145	0.6100
	Year2016	-4.0500	9.5569	-0.4238	0.6742
	Year2017	-5.6667	10.6849	-0.5303	0.5990
	Year2018	-0.6632	9.0646	-0.0732	0.9421
	Year2019	-9.7839	9.9675	-0.9816	0.3327
	Hym_visit_sin_apis:Year2016	NA	NA	NA	NA
	Hym_visit_sin_apis:Year2017	13.3472	42.0836	0.3172	0.7529
	Hym_visit_sin_apis:Year2018	-23.8200	37.2872	-0.6388	0.5269
	Hym_visit_sin_apis:Year2019	NA	NA	NA	NA
Lavandula pedunculata	(Intercept)	2.0850	0.3750	5.5600	0.0000
	Hym_visit_sin_apis	-2.4256	8.3548	-0.2903	0.7731
	Year2016	-0.4668	0.5315	-0.8784	0.3851
	Year2017	-0.0610	0.5530	-0.1104	0.9127
	Year2018	0.1928	0.4295	0.4490	0.6559
	Year2019	0.0505	0.4414	0.1145	0.9095
	Hym_visit_sin_apis:Year2016	10.9095	9.6823	1.1267	0.2667
	Hym_visit_sin_apis:Year2017	1.1002	8.7812	0.1253	0.9009
	Hym_visit_sin_apis:Year2018	1.1896	9.9227	0.1199	0.9052
	Hym_visit_sin_apis:Year2019	4.2720	8.8832	0.4809	0.6333
Lavandula stoechas	(Intercept)	2.0617	0.3286	6.2743	0.0000
	Hym_visit_sin_apis	-2.2503	5.6809	-0.3961	0.6980
	Year2016	0.2439	0.4654	0.5240	0.6085
	Year2017	0.8617	1.1771	0.7321	0.4762
	Year2018	-0.2633	0.7059	-0.3730	0.7147
	Year2019	0.5694	0.8645	0.6587	0.5208
	Hym_visit_sin_apis:Year2016	-30.8053	30.1919	-1.0203	0.3249
	Hym_visit_sin_apis:Year2017	-9.9119	49.1025	-0.2019	0.8429
	Hym_visit_sin_apis:Year2018	-82.4676	99.7418	-0.8268	0.4222
	Hym_visit_sin_apis:Year2019	-2.2804	39.3879	-0.0579	0.9546
Salvia rosmarinus	(Intercept)	2.4191	0.2606	9.2831	0.0000
	Hym_visit_sin_apis	0.1390	1.1453	0.1214	0.9064
	Year2016	-0.6670	1.3492	-0.4944	0.6343
	Year2017	0.5809	0.5584	1.0403	0.3286
	Hym_visit_sin_apis:Year2016	365.0462	1082.0114	0.3374	0.7445
	Hym_visit_sin_apis:Year2017	NA	NA	NA	NA
Teucrium fruticans	(Intercept)	2.3775	1.5960	1.4896	0.2106
	Hym_visit_sin_apis	-0.4535	4.4001	-0.1031	0.9229
	Year2017	1.9499	2.0121	0.9691	0.3874

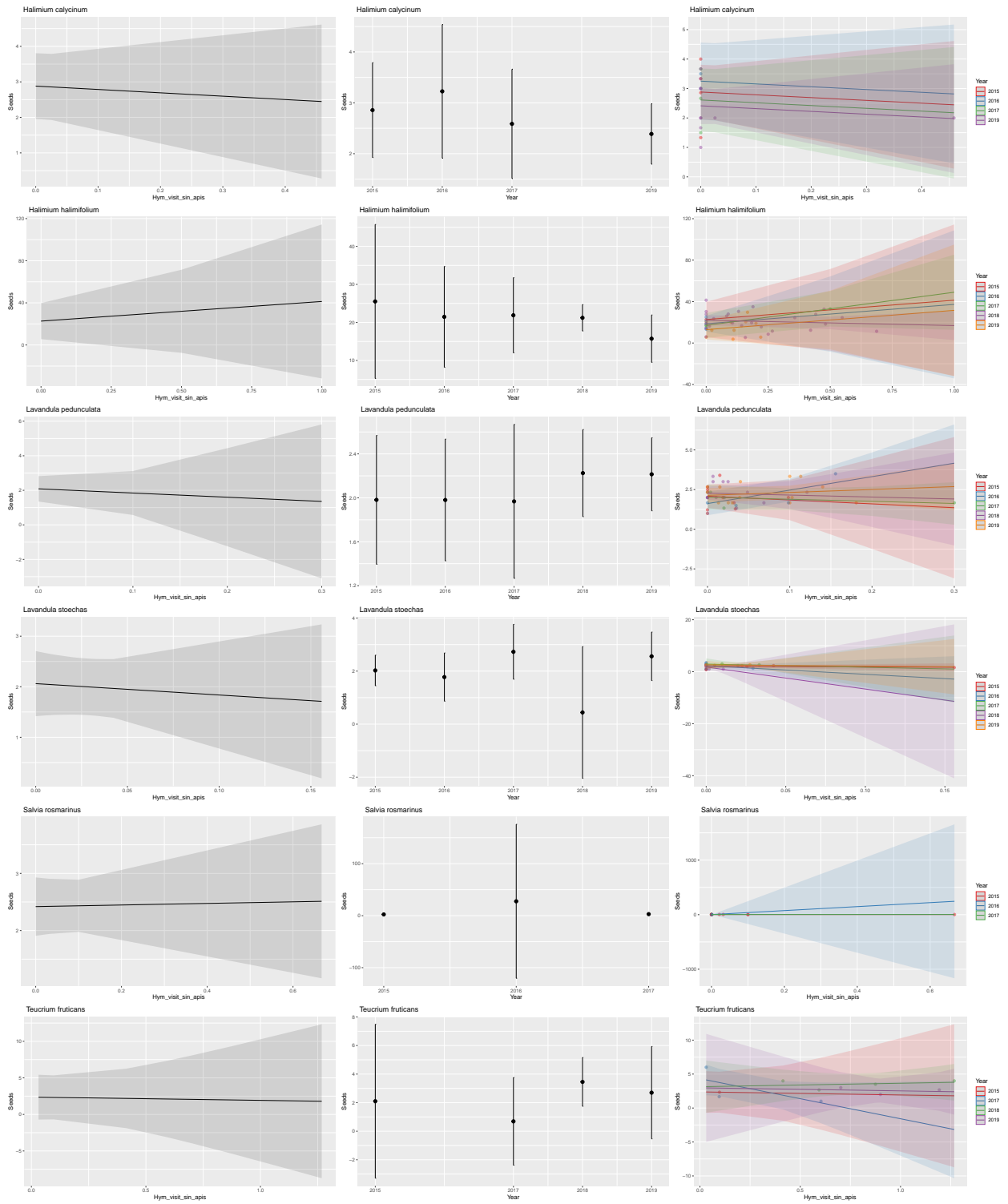
Year2018	0.7570	2.5823	0.2932	0.7840
Year2019	0.6006	4.0780	0.1473	0.8900
Hym_visit_sin_apis:Year2017	-5.4541	5.6029	-0.9734	0.3855
Hym_visit_sin_apis:Year2018	0.9705	5.0052	0.1939	0.8557
Hym_visit_sin_apis:Year2019	NA	NA	NA	NA



Predicted values of Seeds

Cistus libanotis - *Cistus monspeliensis* - *Halimium calycinum* - *Halimium halimifolium* - *Teucrium fruticans*
Warning message: In predict.lm(model, newdata = fitfram, type = "response", se.fit = se,; prediction from a rank-deficient fit may be misleading





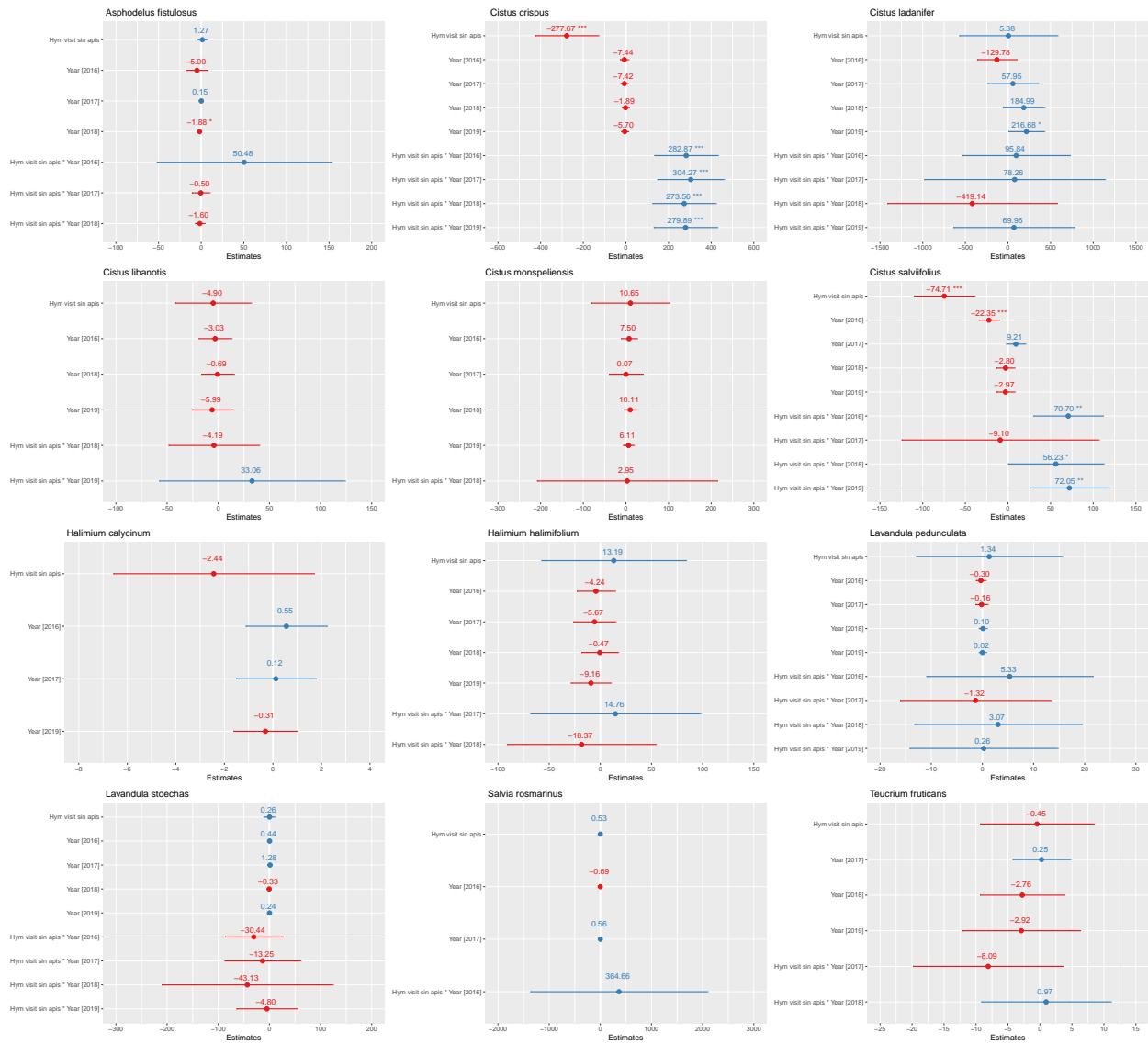
B- linear mixed model with site ID like random factor

Warning messages:Some predictor variables are on very different scales: consider rescaling. The warning occurred in *Salvia rosmarinus*

fixed-effect model matrix is rank deficient so dropping 1 column / coefficient

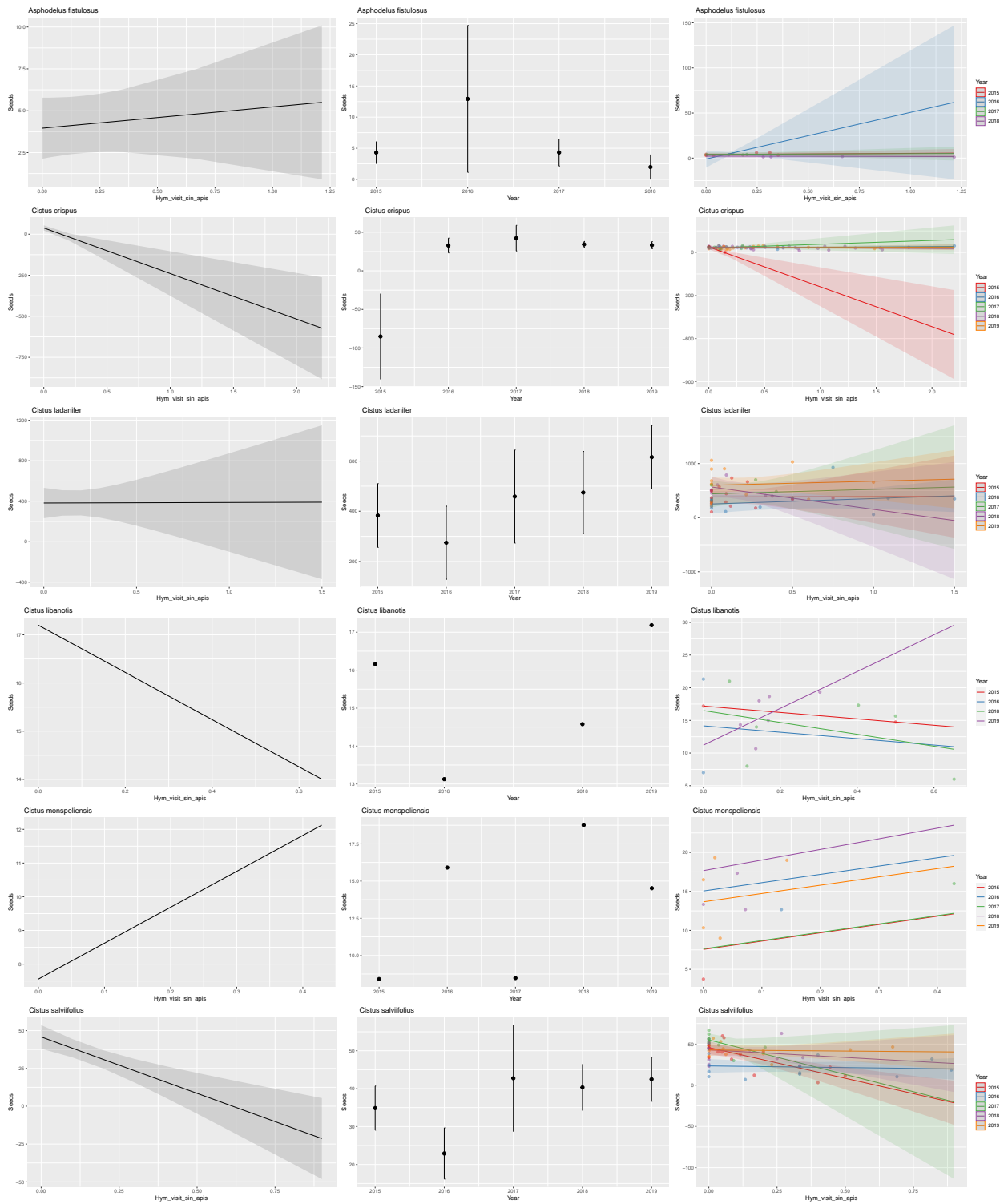
Plant_gen_sp	term	estimate	std.error	statistic	df	p.value
<i>Asphodelus fistulosus</i>	(Intercept)	3.9577	0.9307	4.2524	2.3919	0.0369
	Hym_visit_sin_apis	1.2705	2.0620	0.6161	5.6742	0.5617
	Year2016	-5.0027	4.8522	-1.0310	5.0155	0.3497
	Year2017	0.1506	0.6627	0.2272	5.1138	0.8291
	Year2018	-1.8840	0.6489	-2.9033	5.1183	0.0327
	Hym_visit_sin_apis:Year2016	50.4795	39.8698	1.2661	5.0100	0.2612
	Hym_visit_sin_apis:Year2017	-0.5013	4.0558	-0.1236	5.1808	0.9063
	Hym_visit_sin_apis:Year2018	-1.5953	2.1860	-0.7298	5.6018	0.4949
<i>Cistus crispus</i>	(Intercept)	37.9751	7.9873	4.7544	58.4205	0.0000
	Hym_visit_sin_apis	-277.6667	74.3666	-3.7338	51.4676	0.0005
	Year2016	-7.4381	10.0534	-0.7399	57.0075	0.4624
	Year2017	-7.4198	8.6548	-0.8573	54.8434	0.3950
	Year2018	-1.8949	8.2661	-0.2292	56.9098	0.8195
	Year2019	-5.6976	8.2880	-0.6875	55.1174	0.4947
	Hym_visit_sin_apis:Year2016	282.8729	74.5372	3.7951	51.4882	0.0004
	Hym_visit_sin_apis:Year2017	304.2679	78.2329	3.8893	51.7977	0.0003
	Hym_visit_sin_apis:Year2018	273.5588	74.4272	3.6755	51.4950	0.0006
	Hym_visit_sin_apis:Year2019	279.8884	74.5785	3.7529	51.5287	0.0004
<i>Cistus ladanifer</i>	(Intercept)	381.9785	76.5474	4.9901	35.3898	0.0000
	Hym_visit_sin_apis	5.3764	285.2222	0.0188	42.7561	0.9850
	Year2016	-129.7839	114.9966	-1.1286	42.0527	0.2655
	Year2017	57.9464	147.0623	0.3940	42.3695	0.6955
	Year2018	184.9897	121.6589	1.5206	42.3123	0.1358
	Year2019	216.6848	104.2199	2.0791	41.7667	0.0438
	Hym_visit_sin_apis:Year2016	95.8393	312.1565	0.3070	42.9996	0.7603
	Hym_visit_sin_apis:Year2017	78.2592	524.9013	0.1491	40.7161	0.8822
	Hym_visit_sin_apis:Year2018	-419.1380	493.0794	-0.8500	42.8180	0.4000
	Hym_visit_sin_apis:Year2019	69.9642	351.5690	0.1990	42.7399	0.8432
<i>Cistus libanotis</i>	(Intercept)	17.2000	5.5354	3.1072	9.0000	0.0126
	Hym_visit_sin_apis	-4.9000	15.6566	-0.3130	9.0000	0.7614
	Year2016	-3.0333	6.7795	-0.4474	9.0000	0.6651
	Year2018	-0.6940	6.7900	-0.1022	9.0000	0.9208
	Year2019	-5.9889	8.4439	-0.7093	9.0000	0.4961
	Hym_visit_sin_apis:Year2018	-4.1887	18.7415	-0.2235	9.0000	0.8281
	Hym_visit_sin_apis:Year2019	33.0591	38.3974	0.8610	9.0000	0.4116
<i>Cistus monspeliensis</i>	(Intercept)	7.5577	4.7619	1.5871	1.6772	0.2761
	Hym_visit_sin_apis	10.6541	21.2646	0.5010	3.0643	0.6501
	Year2016	7.4961	4.4018	1.7030	3.0267	0.1863
	Year2017	0.0685	9.2213	0.0074	3.0057	0.9945
	Year2018	10.1074	3.3480	3.0189	3.0000	0.0568
	Year2019	6.1070	2.9153	2.0948	3.0683	0.1252
	Hym_visit_sin_apis:Year2018	2.9545	49.1387	0.0601	3.0121	0.9558
<i>Cistus salviifolius</i>	(Intercept)	45.8526	3.9882	11.4970	56.0000	0.0000
	Hym_visit_sin_apis	-74.7123	17.7773	-4.2027	56.0000	0.0001
	Year2016	-22.3525	5.8617	-3.8133	56.0000	0.0003
	Year2017	9.2070	5.6203	1.6382	56.0000	0.1070

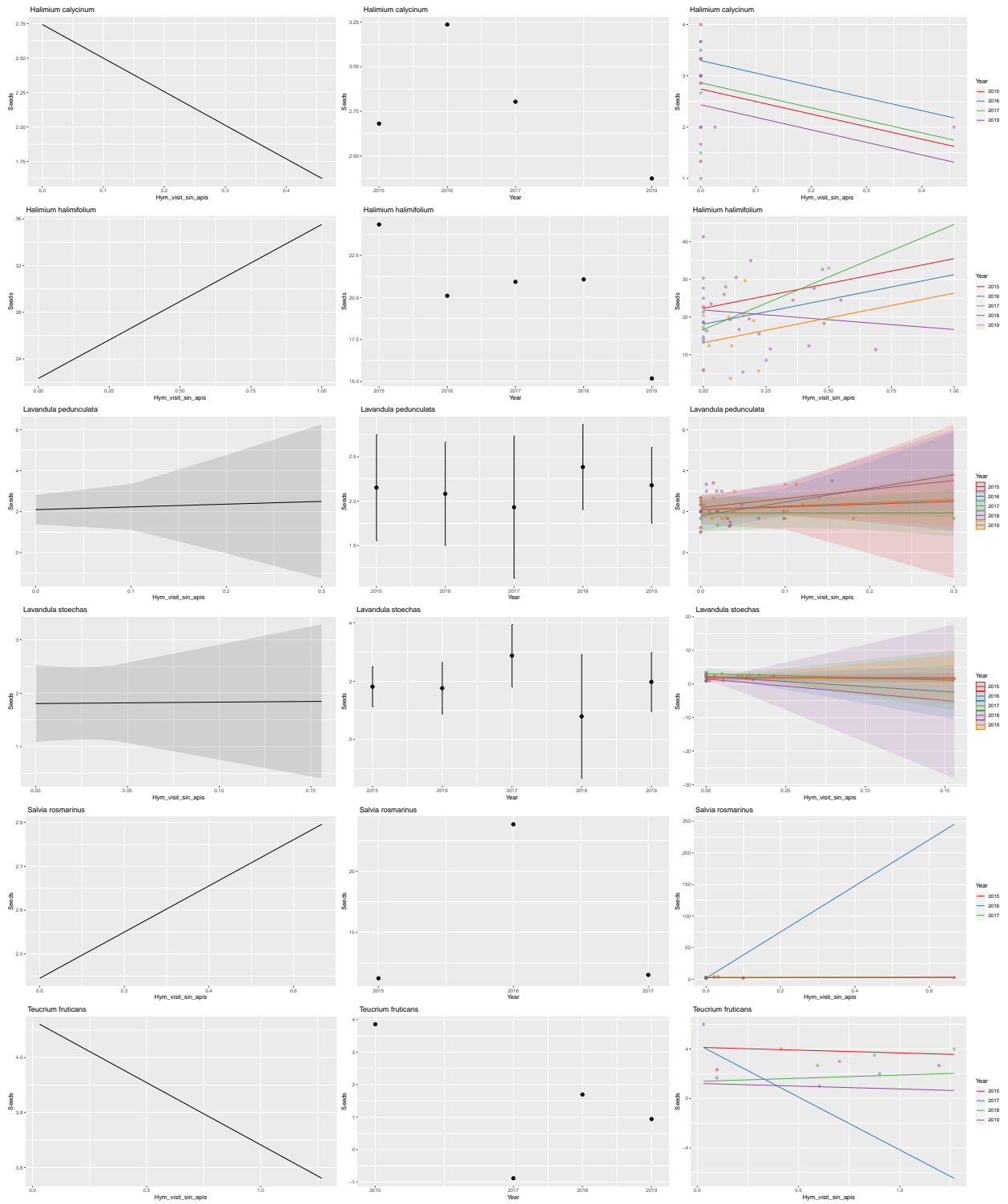
Halimium calycinum	Year2018	-2.7954	5.2789	-0.5296	56.0000	0.5985
	Year2019	-2.9721	5.3897	-0.5514	56.0000	0.5835
	Hym_visit_sin_apis:Year2016	70.7047	20.3495	3.4745	56.0000	0.0010
	Hym_visit_sin_apis:Year2017	-9.0977	57.6807	-0.1577	56.0000	0.8752
	Hym_visit_sin_apis:Year2018	56.2291	27.9405	2.0125	56.0000	0.0490
	Hym_visit_sin_apis:Year2019	72.0465	22.9924	3.1335	56.0000	0.0027
	(Intercept)	2.7434	0.5364	5.1148	8.6273	0.0007
	Hym_visit_sin_apis	-2.4393	1.8985	-1.2848	10.5590	0.2263
	Year2016	0.5546	0.7684	0.7218	13.7465	0.4825
	Year2017	0.1224	0.7539	0.1624	13.7692	0.8734
Halimium halimifolium	Year2019	-0.3073	0.6031	-0.5096	12.9076	0.6190
	(Intercept)	22.3312	8.5899	2.5997	36.2959	0.0134
	Hym_visit_sin_apis	13.1879	34.8263	0.3787	32.9002	0.7074
	Year2016	-4.2410	9.2109	-0.4604	33.1138	0.6482
	Year2017	-5.6667	10.1535	-0.5581	31.0868	0.5808
	Year2018	-0.4652	8.8802	-0.0524	35.4276	0.9585
Lavandula pedunculata	Year2019	-9.1610	9.6371	-0.9506	33.6637	0.3486
	Hym_visit_sin_apis:Year2017	14.7551	40.8979	0.3608	34.8345	0.7204
	Hym_visit_sin_apis:Year2018	-18.3668	35.7847	-0.5133	32.8175	0.6112
	(Intercept)	2.0949	0.3665	5.7157	33.9755	0.0000
	Hym_visit_sin_apis	1.3396	7.0443	0.1902	34.6348	0.8503
	Year2016	-0.2973	0.4716	-0.6303	38.4894	0.5322
	Year2017	-0.1644	0.5977	-0.2751	19.6450	0.7861
	Year2018	0.1012	0.3898	0.2596	37.7651	0.7966
	Year2019	0.0158	0.3563	0.0442	33.5538	0.9650
	Hym_visit_sin_apis:Year2016	5.3325	8.0318	0.6639	34.3254	0.5112
Lavandula stoechas	Hym_visit_sin_apis:Year2017	-1.3184	7.2896	-0.1809	35.9396	0.8575
	Hym_visit_sin_apis:Year2018	3.0691	8.0715	0.3802	33.8106	0.7061
	Hym_visit_sin_apis:Year2019	0.2566	7.1434	0.0359	32.9887	0.9716
	(Intercept)	1.8062	0.3689	4.8967	10.2522	0.0006
	Hym_visit_sin_apis	0.2648	4.9549	0.0534	12.6089	0.9582
	Year2016	0.4363	0.4119	1.0594	13.2213	0.3084
	Year2017	1.2763	0.9462	1.3489	13.2329	0.2000
	Year2018	-0.3277	0.6199	-0.5286	13.3921	0.6057
	Year2019	0.2408	0.7284	0.3305	11.8346	0.7468
	Hym_visit_sin_apis:Year2016	-30.4358	25.7485	-1.1820	12.9542	0.2584
Salvia rosmarinus	Hym_visit_sin_apis:Year2017	-13.2452	34.0649	-0.3888	8.6890	0.7068
	Hym_visit_sin_apis:Year2018	-43.1320	76.8098	-0.5615	10.7982	0.5859
	Hym_visit_sin_apis:Year2019	-4.7956	27.3296	-0.1755	8.6987	0.8647
	(Intercept)	2.4449	0.3245	7.5339	4.0811	0.0015
	Hym_visit_sin_apis	0.5260	0.9258	0.5682	5.2904	0.5932
	Year2016	-0.6928	1.1070	-0.6258	7.9956	0.5489
	Year2017	0.5551	0.7620	0.7285	3.4830	0.5122
	Hym_visit_sin_apis:Year2016	364.6592	707.4712	0.5154	4.0788	0.6329
	(Intercept)	4.1355	2.0234	2.0439	1.3118	0.2402
	Hym_visit_sin_apis	-0.4535	2.0704	-0.2191	3.0000	0.8407
Teucrium fruticans	Year2017	0.2487	1.0498	0.2369	3.0796	0.8276
	Year2018	-2.7590	1.5347	-1.7978	3.1587	0.1654
	Year2019	-2.9154	2.1356	-1.3652	3.0821	0.2633
	Hym_visit_sin_apis:Year2017	-8.0941	2.7287	-2.9663	3.0284	0.0586
	Hym_visit_sin_apis:Year2018	0.9705	2.3551	0.4121	3.0000	0.7080



Predicted values of Seeds

Cistus libanotis - *Cistus monspeliensis* - *Halimium calycinum* - *Halimium halimifolium* - *Teucrium fruticans*
 Could not compute variance-covariance matrix of predictions. No confidence intervals are returned.





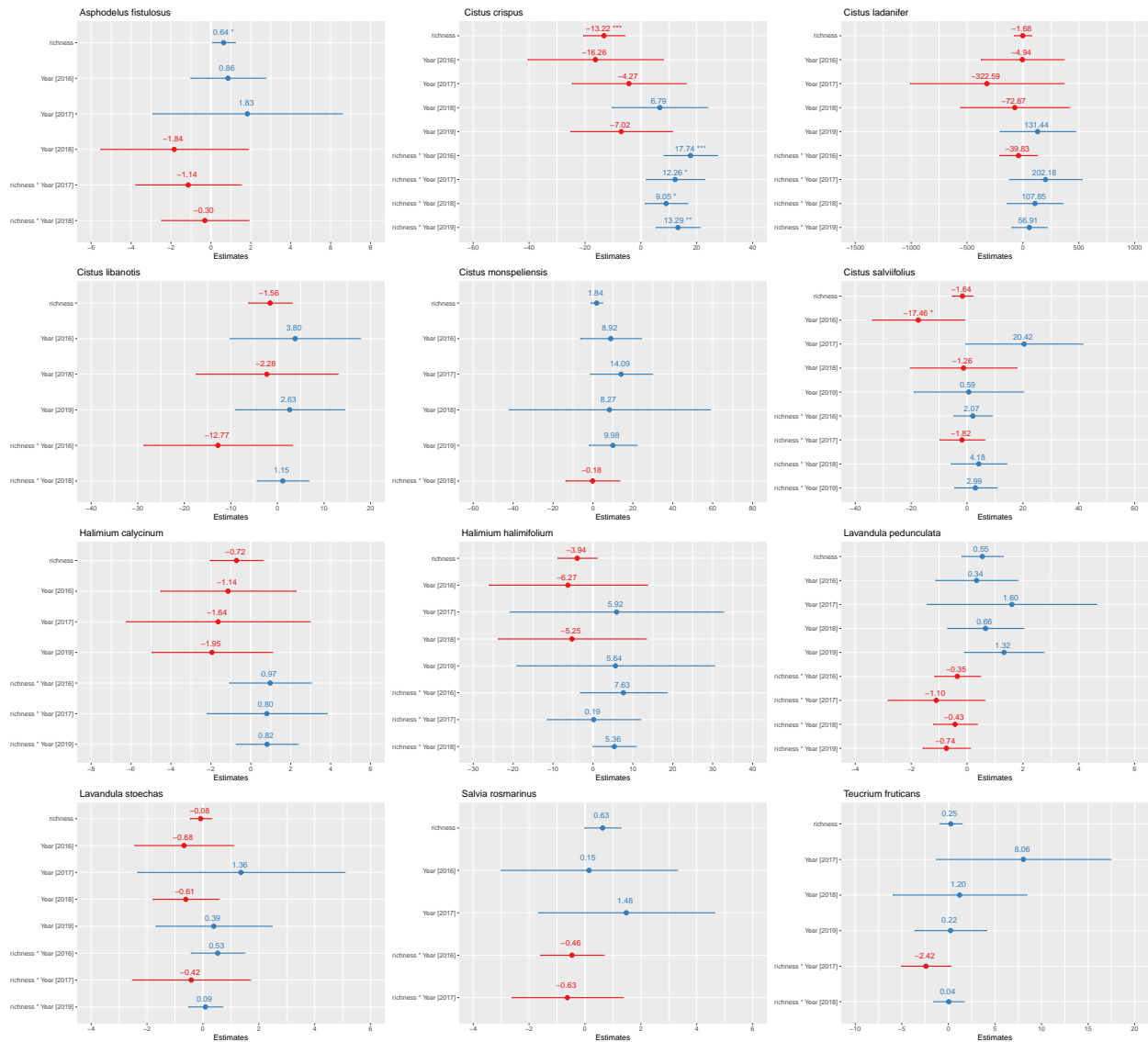
Richness

A- linear model: $\text{lm}(\text{Seeds} \sim \text{richness} * \text{Year})$

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	2.6726	0.6932	3.8554	0.0048
	richness	0.6369	0.2504	2.5440	0.0345
	Year2016	0.8571	0.8177	1.0483	0.3251
	Year2017	1.8274	2.0594	0.8873	0.4008
	Year2018	-1.8393	1.6031	-1.1473	0.2844
	richness:Year2016	NA	NA	NA	NA
	richness:Year2017	-1.1369	1.1473	-0.9909	0.3507
	richness:Year2018	-0.3036	0.9478	-0.3203	0.7570
Cistus crispus	(Intercept)	39.6667	7.8641	5.0440	0.0000
	richness	-13.2222	3.7072	-3.5667	0.0007
	Year2016	-16.2593	12.1075	-1.3429	0.1844
	Year2017	-4.2667	10.1930	-0.4186	0.6770
	Year2018	6.7934	8.5561	0.7940	0.4303
	Year2019	-7.0219	9.1105	-0.7708	0.4439
	richness:Year2016	17.7407	4.7859	3.7069	0.0005
	richness:Year2017	12.2556	5.2296	2.3435	0.0224
Cistus ladanifer	richness:Year2018	9.0498	3.8483	2.3516	0.0220
	richness:Year2019	13.2858	3.9464	3.3666	0.0013
	(Intercept)	385.1171	96.5449	3.9890	0.0003
	richness	-1.6824	38.0778	-0.0442	0.9650
	Year2016	-4.9385	184.3083	-0.0268	0.9787
	Year2017	-322.5893	340.7810	-0.9466	0.3491
	Year2018	-72.8671	242.1120	-0.3010	0.7649
	Year2019	131.4352	167.5808	0.7843	0.4372
Cistus libanotis	richness:Year2016	-39.8279	83.5661	-0.4766	0.6361
	richness:Year2017	202.1824	161.5505	1.2515	0.2175
	richness:Year2018	107.8542	123.7529	0.8715	0.3883
	richness:Year2019	56.9137	78.9461	0.7209	0.4749
	(Intercept)	17.5375	3.9517	4.4379	0.0016
	richness	-1.5625	2.0637	-0.7571	0.4683
	Year2016	3.7958	6.1912	0.6131	0.5550
	Year2018	-2.2778	6.7387	-0.3380	0.7431
Cistus monspeliensis	Year2019	2.6292	5.1936	0.5062	0.6249
	richness:Year2016	-12.7708	7.0490	-1.8117	0.1035
	richness:Year2018	1.1469	2.4554	0.4671	0.6515
	richness:Year2019	NA	NA	NA	NA
	(Intercept)	0.0631	4.4467	0.0142	0.9894
	richness	1.8434	1.0722	1.7193	0.1607
	Year2016	8.9167	5.5090	1.6186	0.1809
	Year2017	14.0934	5.6124	2.5111	0.0660
Cistus salviifolius	Year2018	8.2702	18.1894	0.4547	0.6729
	Year2019	9.9773	4.3155	2.3120	0.0819
	richness:Year2016	NA	NA	NA	NA
	richness:Year2017	NA	NA	NA	NA
	richness:Year2018	-0.1768	4.8899	-0.0361	0.9729
	richness:Year2019	NA	NA	NA	NA
	(Intercept)	39.1116	6.1064	6.4051	0.0000
	richness	-1.6400	1.8655	-0.8791	0.3831
	Year2016	-17.4579	8.2429	-2.1179	0.0386

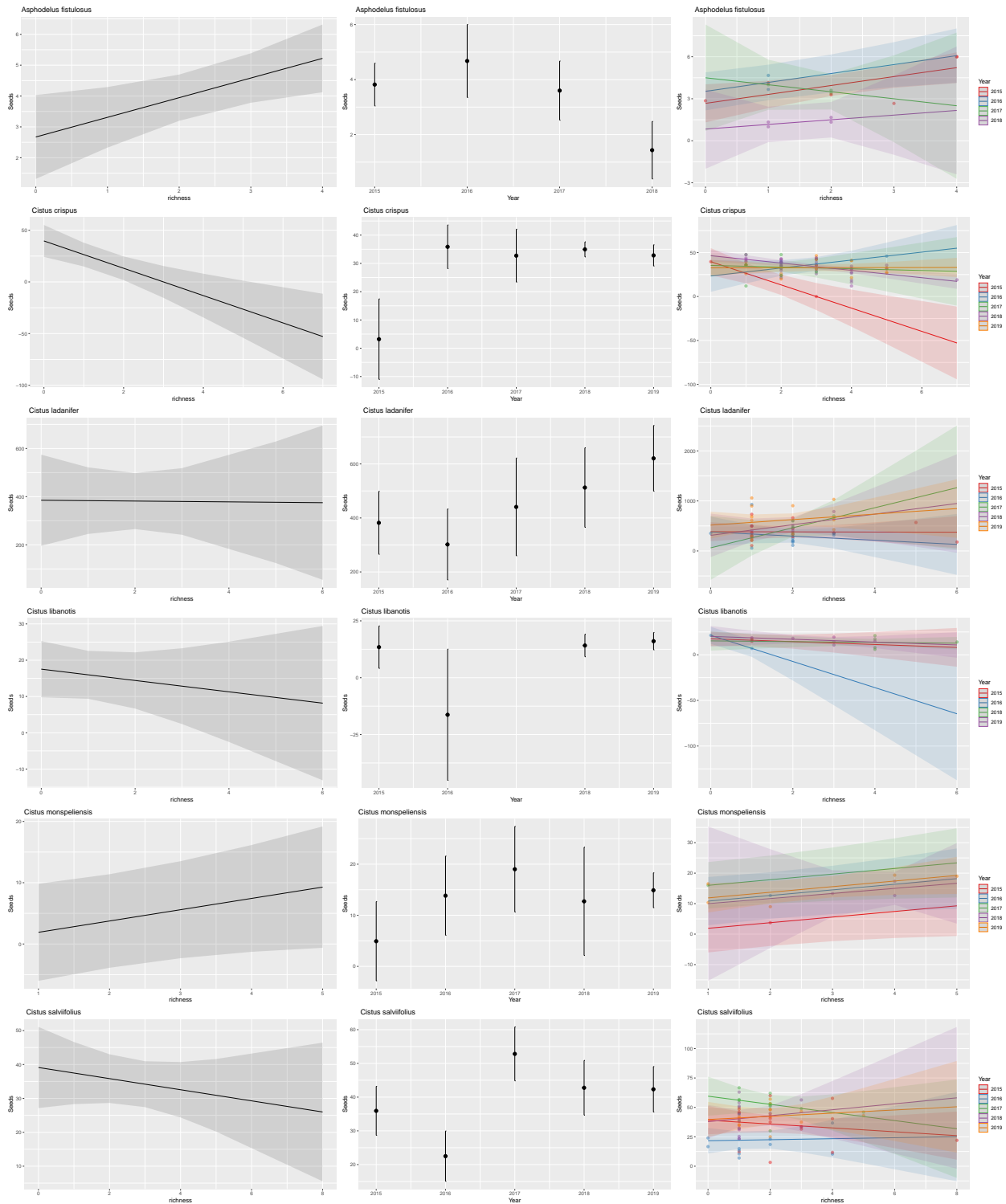
Halimium calycinum	Year2017	20.4155	10.4567	1.9524	0.0559
	Year2018	-1.2607	9.4981	-0.1327	0.8949
	Year2019	0.5902	9.7881	0.0603	0.9521
	richness:Year2016	2.0743	3.4583	0.5998	0.5511
	richness:Year2017	-1.8174	4.0151	-0.4526	0.6526
	richness:Year2018	4.1751	4.9937	0.8361	0.4067
	richness:Year2019	2.9909	3.7952	0.7881	0.4340
	(Intercept)	4.1385	1.1694	3.5390	0.0046
	richness	-0.7186	0.6039	-1.1900	0.2591
	Year2016	-1.1385	1.5396	-0.7395	0.4751
	Year2017	-1.6385	2.0919	-0.7833	0.4500
	Year2019	-1.9455	1.3767	-1.4132	0.1853
	richness:Year2016	0.9686	0.9306	1.0408	0.3203
	richness:Year2017	0.8019	1.3671	0.5866	0.5693
Halimium halimifolium	richness:Year2019	0.8151	0.7047	1.1567	0.2719
	(Intercept)	22.6667	8.5614	2.6475	0.0120
	richness	-3.9382	2.4313	-1.6198	0.1140
	Year2016	-6.2656	9.8083	-0.6388	0.5270
	Year2017	5.9167	13.1940	0.4484	0.6565
	Year2018	-5.2549	9.1482	-0.5744	0.5693
	Year2019	5.6398	12.2049	0.4621	0.6468
	richness:Year2016	7.6309	5.3681	1.4215	0.1638
	richness:Year2017	0.1882	5.7791	0.0326	0.9742
	richness:Year2018	5.3555	2.6688	2.0067	0.0523
	richness:Year2019	NA	NA	NA	NA
	(Intercept)	1.2846	0.5601	2.2934	0.0273
	richness	0.5459	0.3667	1.4886	0.1446
	Year2016	0.3409	0.7282	0.4681	0.6423
Lavandula pedunculata	Year2017	1.6043	1.5020	1.0681	0.2921
	Year2018	0.6608	0.6747	0.9793	0.3335
	Year2019	1.3229	0.7032	1.8813	0.0674
	richness:Year2016	-0.3474	0.4058	-0.8560	0.3972
	richness:Year2017	-1.1014	0.8556	-1.2873	0.2056
	richness:Year2018	-0.4270	0.3896	-1.0961	0.2797
	richness:Year2019	-0.7376	0.4189	-1.7611	0.0861
	(Intercept)	2.1373	0.4231	5.0515	0.0001
	richness	-0.0801	0.1804	-0.4437	0.6636
	Year2016	-0.6758	0.8317	-0.8126	0.4292
	Year2017	1.3627	1.7422	0.7822	0.4463
	Year2018	-0.6128	0.5561	-1.1020	0.2878
	Year2019	0.3890	0.9733	0.3997	0.6950
	richness:Year2016	0.5288	0.4510	1.1724	0.2593
Lavandula stoechas	richness:Year2017	-0.4199	0.9923	-0.4232	0.6781
	richness:Year2018	NA	NA	NA	NA
	richness:Year2019	0.0888	0.2875	0.3090	0.7616
	(Intercept)	1.5211	0.4386	3.4681	0.0104
	richness	0.6316	0.2744	2.3020	0.0548
	Year2016	0.1456	1.3347	0.1091	0.9162
	Year2017	1.4789	1.3347	1.1081	0.3044
	richness:Year2016	-0.4649	0.4839	-0.9607	0.3687
	richness:Year2017	-0.6316	0.8431	-0.7491	0.4782
	(Intercept)	1.3333	2.0886	0.6384	0.5579
	richness	0.2500	0.4263	0.5864	0.5891
	Year2017	8.0556	3.3750	2.3869	0.0754
	Year2018				
	Year2019				
Salvia rosmarinus	richness:Year2016				
	richness:Year2017				
	richness:Year2018				
	richness:Year2019				
Teucrium fruticans	richness:Year2016				
	richness:Year2017				
	richness:Year2018				
	richness:Year2019				

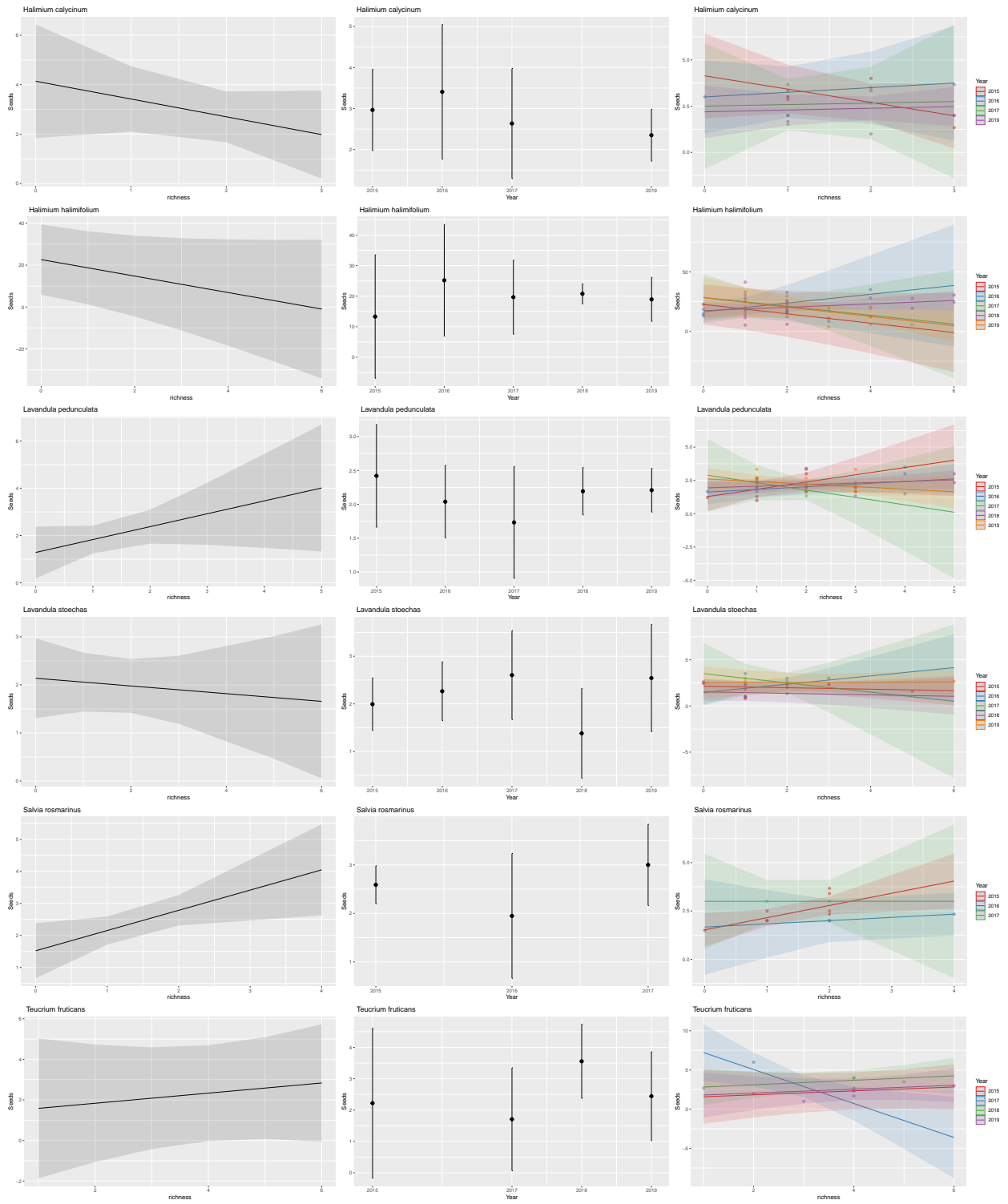
Year2018	1.2037	2.5894	0.4649	0.6662
Year2019	0.2222	1.3924	0.1596	0.8809
richness:Year2017	-2.4167	0.9533	-2.5350	0.0643
richness:Year2018	0.0370	0.5859	0.0632	0.9526
richness:Year2019	NA	NA	NA	NA



Predicted values of Seeds

Asphodelus fistulosus - *Cistus libanotis* - *Cistus monspeliensis* - *Halimium halimifolium* - *Lavandula stoechas* - *Teucrium fruticans* Warning message: In predict.lm(model, newdata = fitfram, type = "response", se.fit = se,): prediction from a rank-deficient fit may be misleading

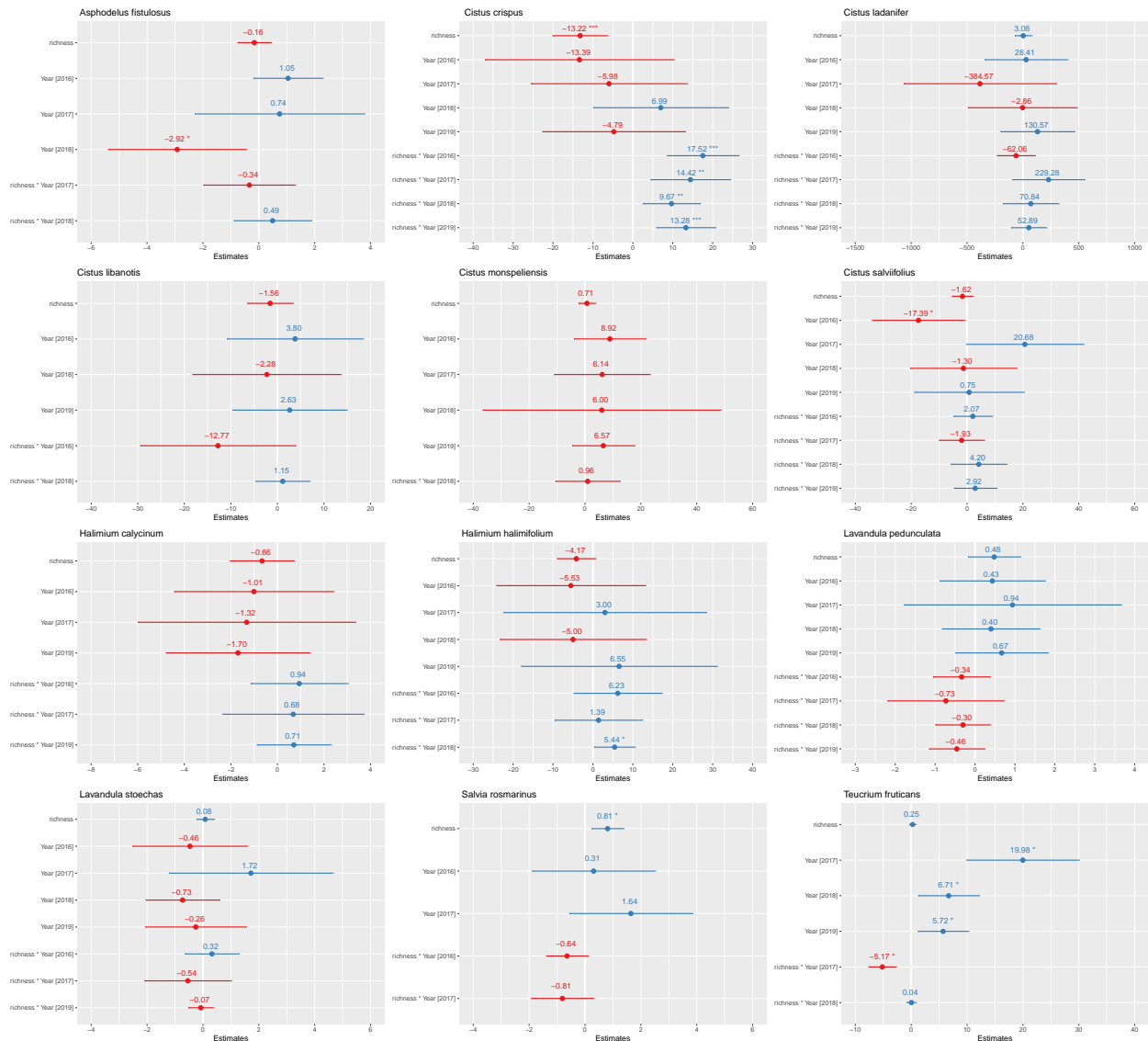


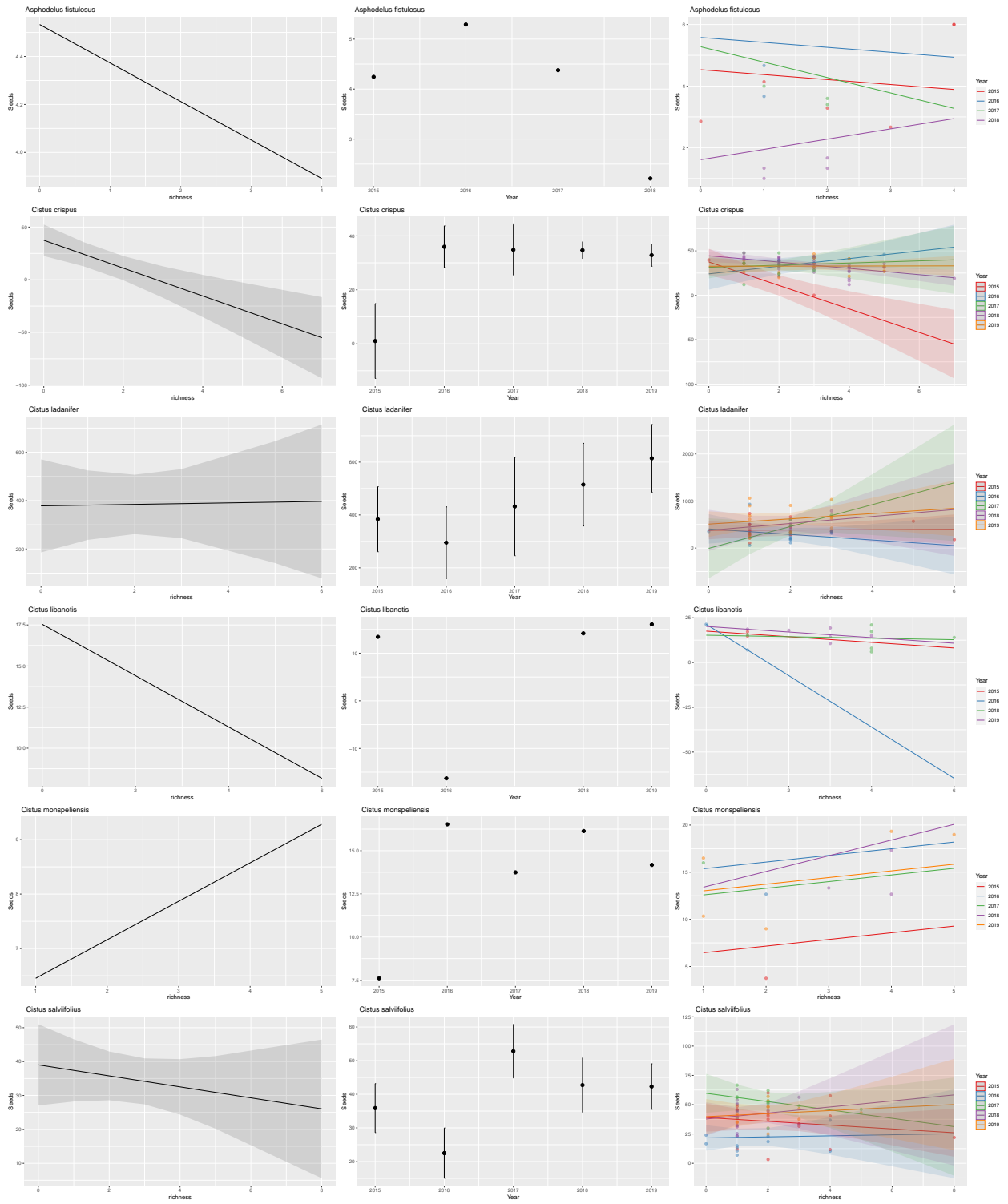


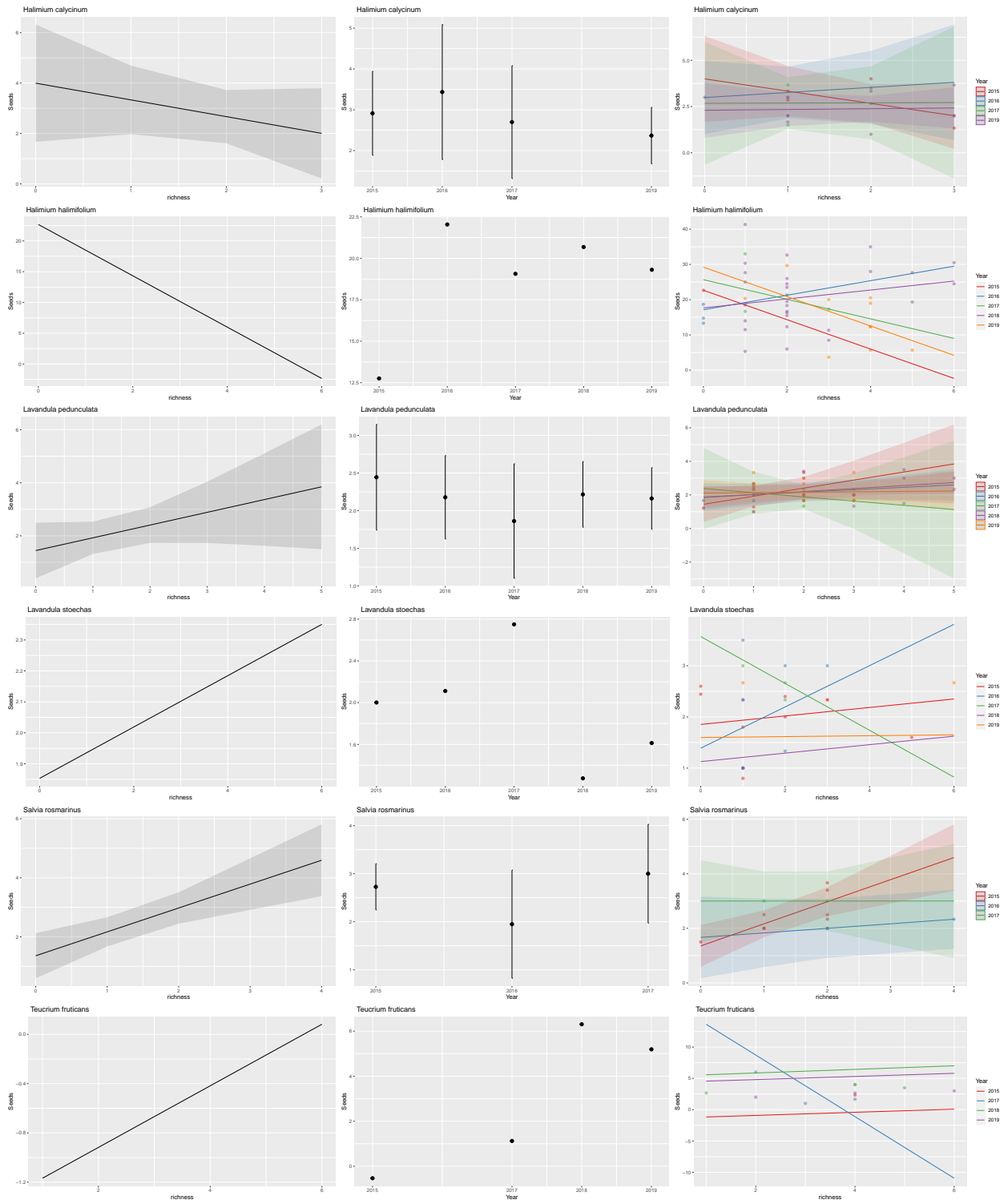
B- linear mixed model with site ID like random factor

Plant_gen_sp	term	estimate	std.error	statistic	df	p.value
Asphodelus fistulosus	(Intercept)	4.5333	1.2265	3.6961	2.6447	0.0424
	richness	-0.1605	0.2446	-0.6564	6.8524	0.5330
	Year2016	1.0474	0.5067	2.0671	5.9813	0.0844
	Year2017	0.7445	1.2402	0.6003	5.9980	0.5703
	Year2018	-2.9222	1.0092	-2.8956	6.0827	0.0271
	richness:Year2017	-0.3395	0.6705	-0.5063	5.9706	0.6308
	richness:Year2018	0.4939	0.5653	0.8736	6.0269	0.4158
	(Intercept)	37.4736	7.6109	4.9236	58.7162	0.0000
Cistus crispus	richness	-13.2222	3.4312	-3.8535	51.6119	0.0003
	Year2016	-13.3868	11.8150	-1.1330	58.7092	0.2618
	Year2017	-5.9792	9.7487	-0.6133	56.6876	0.5421
	Year2018	6.9890	8.4603	0.8261	59.7826	0.4120
	Year2019	-4.7873	8.9296	-0.5361	59.0805	0.5939
	richness:Year2016	17.5225	4.5134	3.8824	54.4885	0.0003
	richness:Year2017	14.4249	4.9825	2.8951	56.5307	0.0054
	richness:Year2018	9.6747	3.5969	2.6897	53.7665	0.0095
	richness:Year2019	13.2811	3.6943	3.5950	53.7519	0.0007
	(Intercept)	378.1738	98.1118	3.8545	38.2230	0.0004
Cistus ladanifer	richness	3.0845	37.5572	0.0821	41.0239	0.9349
	Year2016	28.4123	183.7285	0.1546	42.8983	0.8778
	Year2017	-384.5684	337.8100	-1.1384	41.8397	0.2614
	Year2018	-2.8635	241.0120	-0.0119	42.3430	0.9906
	Year2019	130.5661	164.2937	0.7947	39.5025	0.4315
	richness:Year2016	-62.0563	83.7116	-0.7413	42.9981	0.4625
	richness:Year2017	229.2824	160.3117	1.4302	42.2601	0.1600
	richness:Year2018	70.8404	123.2944	0.5746	42.2990	0.5686
	richness:Year2019	52.8894	78.1824	0.6765	41.8048	0.5025
	(Intercept)	17.5375	3.9517	4.4379	9.0000	0.0016
Cistus libanotis	richness	-1.5625	2.0637	-0.7571	9.0000	0.4683
	Year2016	3.7958	6.1912	0.6131	9.0000	0.5550
	Year2018	-2.2778	6.7387	-0.3380	9.0000	0.7431
	Year2019	2.6292	5.1936	0.5062	9.0000	0.6249
	richness:Year2016	-12.7708	7.0490	-1.8117	9.0000	0.1035
	richness:Year2018	1.1469	2.4554	0.4671	9.0000	0.6515
	richness:Year2019	5.7477	4.6949	1.2242	2.1109	0.3399
Cistus monspeliensis	richness	0.7065	0.6881	1.0268	3.1777	0.3762
	Year2016	8.9167	2.9895	2.9826	3.0000	0.0585
	Year2017	6.1350	3.9856	1.5393	3.2584	0.2143
	Year2018	5.9964	9.8980	0.6058	3.0034	0.5874
	Year2019	6.5665	2.5881	2.5372	3.1133	0.0818
	richness:Year2018	0.9602	2.6789	0.3584	3.0118	0.7437
	(Intercept)	39.0282	6.1133	6.3841	53.8617	0.0000
Cistus salviifolius	richness	-1.6223	1.8660	-0.8694	55.8846	0.3883
	Year2016	-17.3942	8.2450	-2.1097	55.8786	0.0394
	Year2017	20.6834	10.4712	1.9753	53.0543	0.0535
	Year2018	-1.2958	9.4948	-0.1365	55.8052	0.8919
	Year2019	0.7469	9.7828	0.0764	55.5560	0.9394
	richness:Year2016	2.0707	3.4621	0.5981	54.0938	0.5523
	richness:Year2017	-1.9347	4.0210	-0.4811	52.7939	0.6324
	richness:Year2018	4.1988	4.9975	0.8402	55.1274	0.4044

Halimium calycinum	richness:Year2019	2.9191	3.7941	0.7694	55.8704	0.4449
	(Intercept)	3.9951	1.1865	3.3671	9.8122	0.0073
	richness	-0.6632	0.6066	-1.0933	10.7084	0.2982
	Year2016	-1.0079	1.5126	-0.6663	9.9069	0.5204
	Year2017	-1.3200	2.0645	-0.6394	10.2599	0.5366
	Year2019	-1.6963	1.3659	-1.2419	10.7788	0.2406
	richness:Year2016	0.9378	0.9223	1.0168	10.7426	0.3316
	richness:Year2017	0.6773	1.3411	0.5050	9.5815	0.6250
Halimium halimifolium	richness:Year2019	0.7058	0.7027	1.0043	10.9997	0.3368
	(Intercept)	22.6694	8.3479	2.7156	35.3293	0.0102
	richness	-4.1696	2.3576	-1.7686	34.1919	0.0859
	Year2016	-5.5283	9.1779	-0.6024	30.9514	0.5513
	Year2017	3.0017	12.5025	0.2401	32.2315	0.8118
	Year2018	-5.0021	9.0190	-0.5546	35.2318	0.5827
	Year2019	6.5541	12.0714	0.5429	35.3206	0.5906
	richness:Year2016	6.2298	5.4383	1.1455	35.9425	0.2596
Lavandula pedunculata	richness:Year2017	1.3912	5.4160	0.2569	31.1852	0.7990
	richness:Year2018	5.4370	2.5204	2.1572	31.9288	0.0386
	(Intercept)	1.4437	0.5353	2.6969	38.1180	0.0104
	richness	0.4807	0.3243	1.4825	37.4088	0.1466
	Year2016	0.4349	0.6514	0.6677	38.3905	0.5083
	Year2017	0.9389	1.3444	0.6984	38.8869	0.4891
	Year2018	0.3994	0.6046	0.6606	38.0843	0.5128
	Year2019	0.6678	0.5708	1.1700	33.6837	0.2502
Lavandula stoechas	richness:Year2016	-0.3370	0.3526	-0.9557	36.8343	0.3455
	richness:Year2017	-0.7310	0.7200	-1.0153	37.7735	0.3164
	richness:Year2018	-0.3016	0.3393	-0.8890	36.7686	0.3798
	richness:Year2019	-0.4564	0.3422	-1.3336	33.7620	0.1913
	(Intercept)	1.8531	0.4516	4.1030	11.1192	0.0017
	richness	0.0829	0.1452	0.5706	12.6398	0.5782
	Year2016	-0.4638	0.9505	-0.4879	12.6120	0.6340
	Year2017	1.7167	1.3584	1.2638	13.3797	0.2279
Salvia rosmarinus	Year2018	-0.7263	0.6113	-1.1882	12.1452	0.2575
	Year2019	-0.2554	0.8364	-0.3053	14.9375	0.7643
	richness:Year2016	0.3203	0.4487	0.7139	14.6336	0.4865
	richness:Year2017	-0.5405	0.7183	-0.7525	11.4541	0.4670
	richness:Year2019	-0.0741	0.2074	-0.3572	11.2193	0.7275
	(Intercept)	1.3567	0.3897	3.4814	6.9746	0.0103
	richness	0.8095	0.2211	3.6614	6.0701	0.0103
	Year2016	0.3100	0.8578	0.3614	6.9790	0.7285
Teucrium fruticans	Year2017	1.6433	0.8578	1.9158	6.9790	0.0971
	richness:Year2016	-0.6428	0.2895	-2.2203	5.0748	0.0763
	richness:Year2017	-0.8095	0.4343	-1.8638	4.3082	0.1307
	(Intercept)	-1.4180	2.9130	-0.4868	1.1143	0.7048
	richness	0.2500	0.1391	1.7970	3.0000	0.1702
	Year2017	19.9781	2.3341	8.5593	3.1386	0.0028
	Year2018	6.7064	1.2713	5.2754	3.0997	0.0122
	Year2019	5.7249	1.0529	5.4374	3.1451	0.0108
	richness:Year2017	-5.1680	0.5677	-9.1031	3.1249	0.0024
	richness:Year2018	0.0370	0.1912	0.1937	3.0000	0.8588







Fruit proportion

visitation rate (all pollinator)

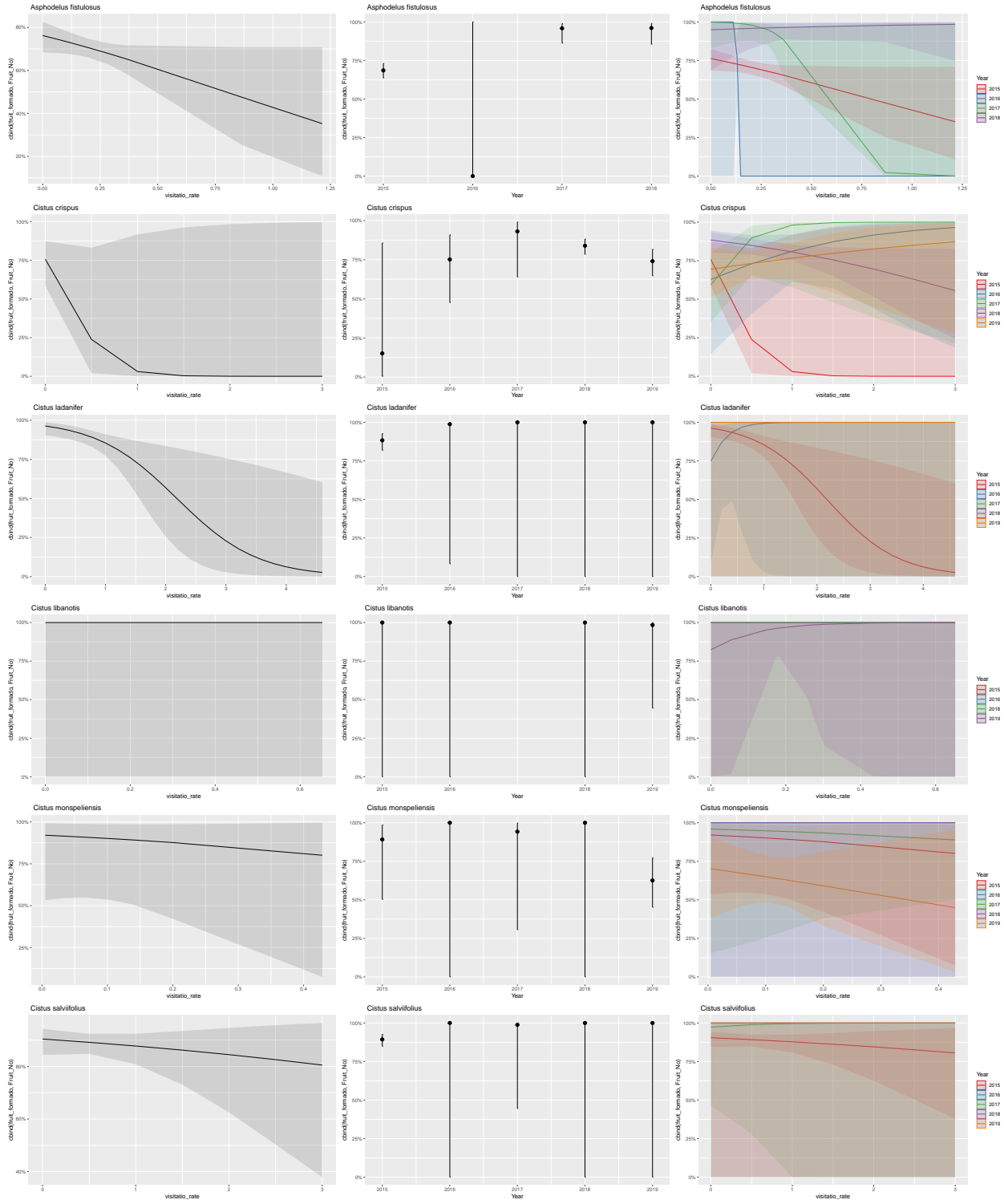
A- GLM binomial (cbind(fruit_formado, Fruit_No))

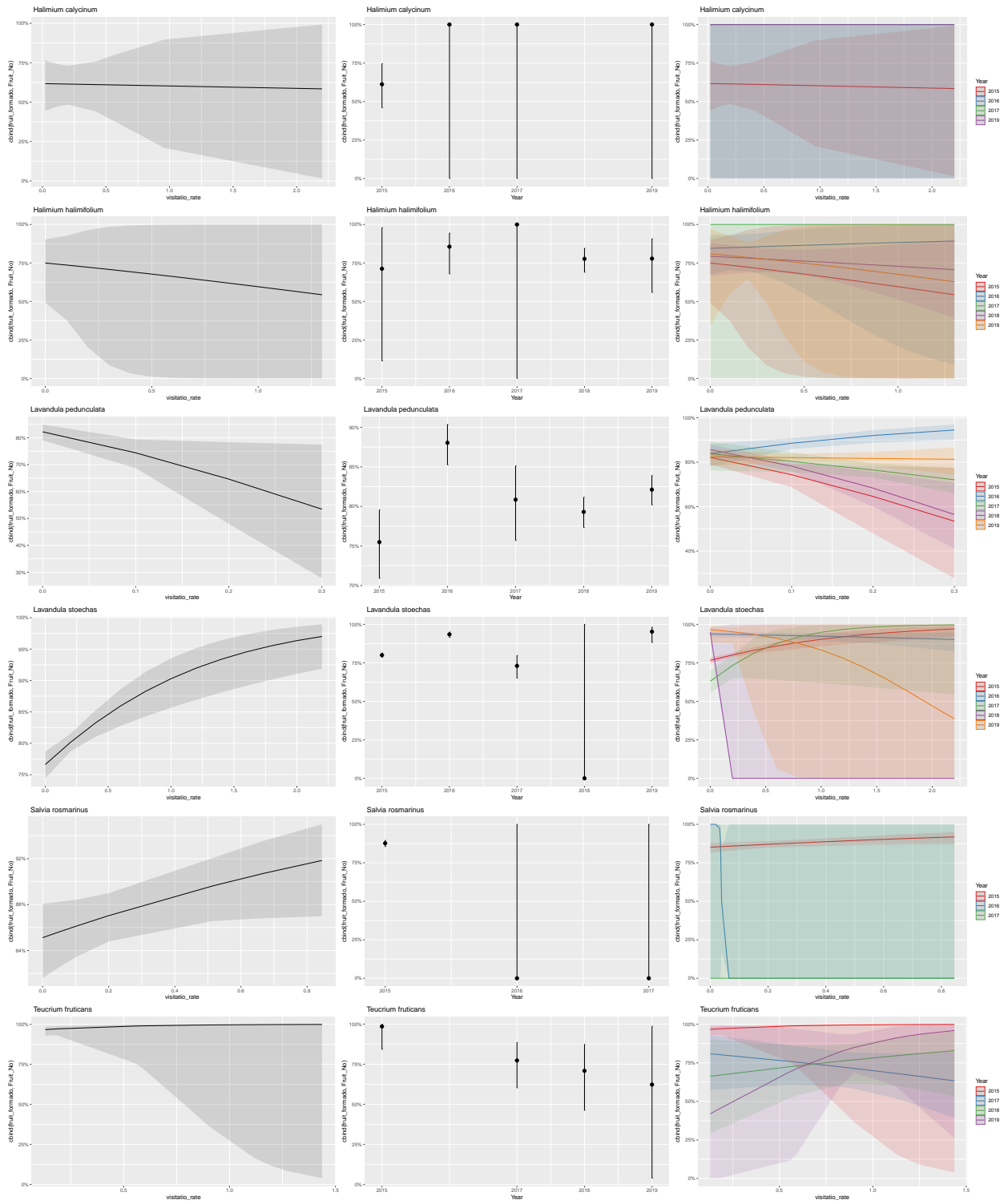
Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	1.1651	0.1991	5.8506	0.0000
	visitatio_rate	-1.4603	0.7625	-1.9152	0.0555
	Year2016	110.7121	6587.5757	0.0168	0.9866
	Year2017	5.0122	2.3436	2.1387	0.0325
	Year2018	1.7612	1.1196	1.5730	0.1157
	visitatio_rate:Year2016	-847.0345	50504.7499	-0.0168	0.9866
	visitatio_rate:Year2017	-10.0195	7.4890	-1.3379	0.1809
	visitatio_rate:Year2018	2.4459	2.0941	1.1680	0.2428
Cistus crispus	(Intercept)	1.1394	0.4062	2.8051	0.0050
	visitatio_rate	-4.5980	3.2147	-1.4303	0.1526
	Year2016	-0.6131	1.2485	-0.4910	0.6234
	Year2017	-0.7588	0.6501	-1.1673	0.2431
	Year2018	0.8905	0.5188	1.7165	0.0861
	Year2019	-0.3183	0.5617	-0.5667	0.5709
	visitatio_rate:Year2016	5.5315	3.4167	1.6190	0.1055
	visitatio_rate:Year2017	8.1656	3.9170	2.0847	0.0371
Cistus ladanifer	visitatio_rate:Year2018	3.9956	3.2301	1.2370	0.2161
	visitatio_rate:Year2019	4.9652	3.2685	1.5191	0.1287
	(Intercept)	3.2589	0.5197	6.2710	0.0000
	visitatio_rate	-1.4928	0.5405	-2.7619	0.0057
	Year2016	-2.1668	1.8303	-1.1838	0.2365
	Year2017	17.8950	11882.6035	0.0015	0.9988
	Year2018	17.8949	6471.5594	0.0028	0.9978
	Year2019	17.5893	7060.3685	0.0025	0.9980
Cistus libanotis	visitatio_rate:Year2016	5.4949	5.6944	0.9650	0.3346
	visitatio_rate:Year2017	1.5239	7716.8028	0.0002	0.9998
	visitatio_rate:Year2018	1.4595	4125.9638	0.0004	0.9997
	visitatio_rate:Year2019	1.3174	7743.5570	0.0002	0.9999
	(Intercept)	23.8697	21962.3198	0.0011	0.9991
	visitatio_rate	-1.3333	62558.9654	0.0000	1.0000
	Year2016	-1.1868	30289.5171	0.0000	1.0000
	Year2018	-1.6645	40651.8342	0.0000	1.0000
Cistus monspeliensis	Year2019	-22.3301	21962.3202	-0.0010	0.9992
	visitatio_rate:Year2016	1.0040	91650.1780	0.0000	1.0000
	visitatio_rate:Year2018	1.8257	98896.4630	0.0000	1.0000
	visitatio_rate:Year2019	10.9973	62558.9697	0.0002	0.9999
	(Intercept)	2.4625	1.1929	2.0643	0.0390
	visitatio_rate	-2.4938	5.2503	-0.4750	0.6348
	Year2016	18.2353	8018.5612	0.0023	0.9982
	Year2017	0.6857	2.2578	0.3037	0.7614
	Year2018	18.0425	9484.2728	0.0019	0.9985
	Year2019	-1.5956	1.1073	-1.4410	0.1496
	visitatio_rate:Year2016	NA	NA	NA	NA
	visitatio_rate:Year2017	NA	NA	NA	NA
	visitatio_rate:Year2018	6.4408	100031.0875	0.0001	0.9999
	visitatio_rate:Year2019	NA	NA	NA	NA

Cistus salviifolius	(Intercept)	2.2479	0.2850	7.8873	0.0000
	visitatio_rate	-0.2760	0.3864	-0.7144	0.4750
	Year2016	18.6498	5583.8422	0.0033	0.9973
	Year2017	1.3248	1.9165	0.6912	0.4894
	Year2018	19.3249	5846.9645	0.0033	0.9974
	Year2019	19.0989	4580.9481	0.0042	0.9967
	visitatio_rate:Year2016	0.4125	5087.7276	0.0001	0.9999
	visitatio_rate:Year2017	2.1716	8.4113	0.2582	0.7963
	visitatio_rate:Year2018	-0.5549	15634.2631	0.0000	1.0000
	visitatio_rate:Year2019	0.0961	4787.4777	0.0000	1.0000
Halimium calycinum	(Intercept)	0.4785	0.3762	1.2719	0.2034
	visitatio_rate	-0.0631	1.1566	-0.0546	0.9565
	Year2016	20.4392	209680.2891	0.0001	0.9999
	Year2017	23.1137	25915.8304	0.0009	0.9993
	Year2019	22.7260	15275.2919	0.0015	0.9988
	visitatio_rate:Year2016	28.0857	2881895.1800	0.0000	1.0000
	visitatio_rate:Year2017	0.2154	19956.3788	0.0000	1.0000
	visitatio_rate:Year2019	0.4687	40869.0675	0.0000	1.0000
Halimium halimifolium	(Intercept)	1.0986	0.5774	1.9029	0.0571
	visitatio_rate	-0.7108	5.1944	-0.1368	0.8912
	Year2016	0.5971	0.7580	0.7878	0.4308
	Year2017	19.3198	8986.8882	0.0021	0.9983
	Year2018	0.2460	0.6662	0.3693	0.7119
	Year2019	0.3477	1.2194	0.2851	0.7756
	visitatio_rate:Year2016	1.0333	5.5192	0.1872	0.8515
	visitatio_rate:Year2017	-0.3715	19779.7580	0.0000	1.0000
	visitatio_rate:Year2018	0.3513	5.2381	0.0671	0.9465
Lavandula pedunculata	visitatio_rate:Year2019	NA	NA	NA	NA
	(Intercept)	1.5306	0.1022	14.9702	0.0000
	visitatio_rate	-4.6407	2.1313	-2.1774	0.0295
	Year2016	0.1173	0.2185	0.5367	0.5915
	Year2017	0.1125	0.2631	0.4277	0.6689
	Year2018	0.2589	0.1462	1.7704	0.0767
	Year2019	0.0166	0.1674	0.0990	0.9211
	visitatio_rate:Year2016	8.6350	2.6090	3.3097	0.0009
	visitatio_rate:Year2017	2.3282	2.4110	0.9656	0.3342
	visitatio_rate:Year2018	-0.4539	2.5160	-0.1804	0.8568
	visitatio_rate:Year2019	4.3885	2.3729	1.8494	0.0644
Lavandula stoechas	(Intercept)	1.1863	0.0606	19.5831	0.0000
	visitatio_rate	1.0439	0.2632	3.9658	0.0001
	Year2016	1.5231	0.1776	8.5772	0.0000
	Year2017	-0.6506	0.1684	-3.8637	0.0001
	Year2018	1.7710	0.5111	3.4647	0.0005
	Year2019	2.1498	0.6690	3.2134	0.0013
	visitatio_rate:Year2016	-1.2674	0.3213	-3.9441	0.0001
	visitatio_rate:Year2017	1.3353	1.3689	0.9755	0.3293
	visitatio_rate:Year2018	-72.6914	61.7690	-1.1768	0.2393
	visitatio_rate:Year2019	-2.7711	5.2715	-0.5257	0.5991
Salvia rosmarinus	(Intercept)	1.7439	0.1305	13.3624	0.0000
	visitatio_rate	0.8014	0.4013	1.9969	0.0458
	Year2016	19.0592	4685.2199	0.0041	0.9968
	Year2017	-22.3096	2990.8644	-0.0075	0.9940
	visitatio_rate:Year2016	-530.7187	119346.4829	-0.0044	0.9965
	visitatio_rate:Year2017	-0.6500	4970.1979	-0.0001	0.9999

Teucrium fruticans	(Intercept)	3.0207	0.6571	4.5970	0.0000
	visitatio_rate	2.6685	3.9215	0.6805	0.4962
	Year2017	-1.4942	0.9341	-1.5996	0.1097
	Year2018	-2.4367	1.1267	-2.1627	0.0306
	Year2019	-3.6926	3.1052	-1.1892	0.2344
	visitatio_rate:Year2017	-3.3503	3.9823	-0.8413	0.4002
	visitatio_rate:Year2018	-1.9768	4.0554	-0.4875	0.6259
	visitatio_rate:Year2019	NA	NA	NA	NA

C. crispus, *C. ladanifer*, *C. salviifolius*, *H. halimifolium*, *L. pedunculata*, *L. stoechas* -> Data were ‘prettified’. Consider using terms=“visitation_rate [all]” to get smooth plots.





B- GLMM binomial (ramdon= Site_ID)

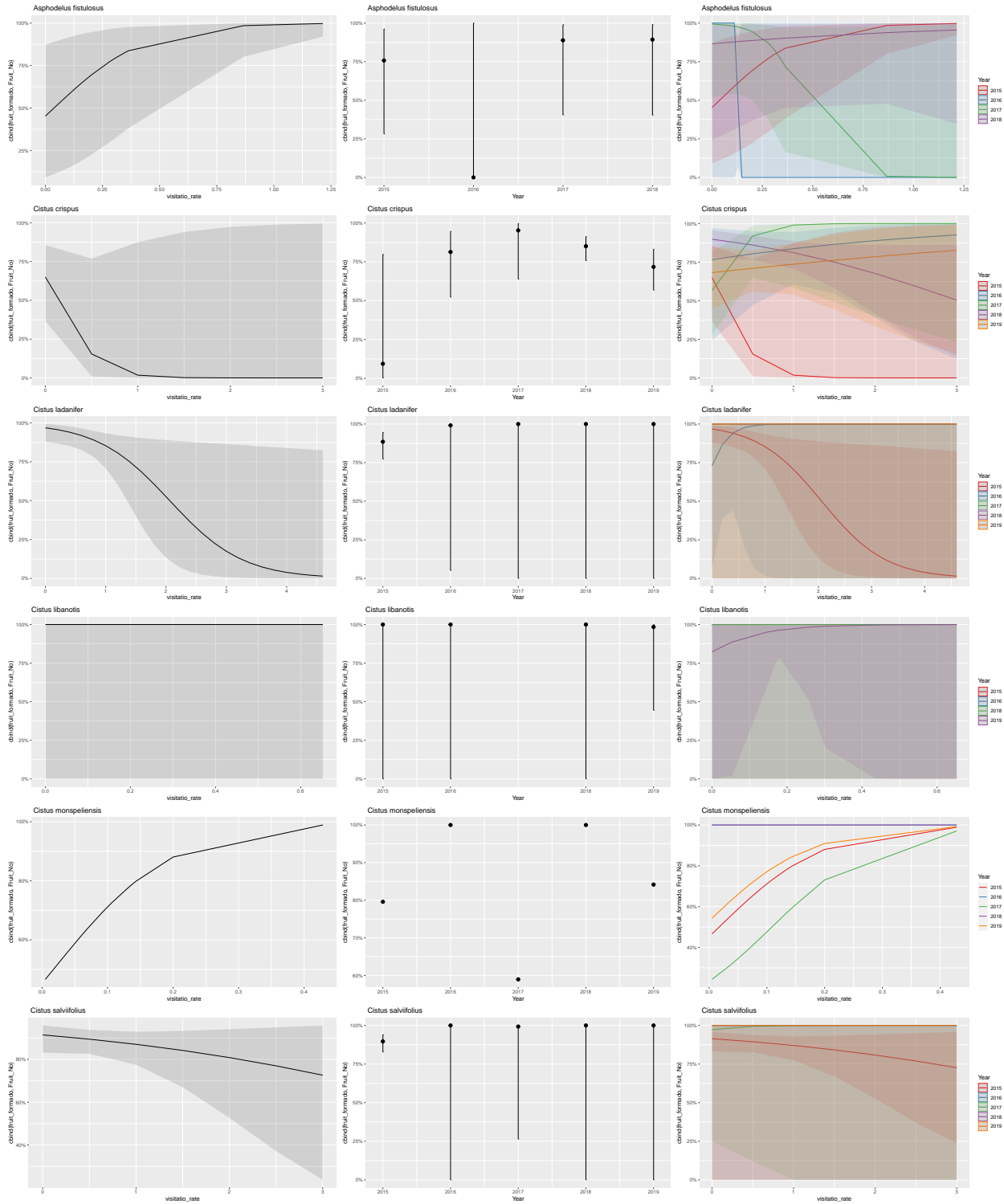
Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	-0.1904	1.074700e+00	-0.1772	0.8593
	visitatio_rate	5.0246	1.361600e+00	3.6903	0.0002
	Year2016	124.1085	2.943073e+04	0.0042	0.9966
	Year2017	5.3110	2.357700e+00	2.2526	0.0243
	Year2018	2.0544	1.138300e+00	1.8049	0.0711
	visitatio_rate:Year2016	-956.8006	2.256356e+05	-0.0042	0.9966
	visitatio_rate:Year2017	-16.5276	7.590800e+00	-2.1773	0.0295
	visitatio_rate:Year2018	-4.0379	2.383300e+00	-1.6943	0.0902
Cistus crispus	(Intercept)	0.6192	5.954000e-01	1.0399	0.2984
	visitatio_rate	-4.6402	3.232000e+00	-1.4357	0.1511
	Year2016	0.5696	1.308800e+00	0.4352	0.6634
	Year2017	-0.3541	8.263000e-01	-0.4285	0.6683
	Year2018	1.5624	7.366000e-01	2.1211	0.0339
	Year2019	0.1435	7.024000e-01	0.2043	0.8381
	visitatio_rate:Year2016	5.0873	3.406000e+00	1.4936	0.1353
	visitatio_rate:Year2017	8.9880	4.160800e+00	2.1602	0.0308
Cistus ladanifer	visitatio_rate:Year2018	3.9186	3.257700e+00	1.2029	0.2290
	visitatio_rate:Year2019	4.9075	3.298800e+00	1.4877	0.1368
	(Intercept)	3.4145	7.346000e-01	4.6480	0.0000
	visitatio_rate	-1.6564	7.621000e-01	-2.1734	0.0298
	Year2016	-2.4176	1.934900e+00	-1.2494	0.2115
	Year2017	19.0346	4.055453e+04	0.0005	0.9996
	Year2018	18.8293	3.060199e+04	0.0006	0.9995
	Year2019	18.8826	2.401690e+04	0.0008	0.9994
Cistus libanotis	visitatio_rate:Year2016	6.1672	6.301700e+00	0.9787	0.3277
	visitatio_rate:Year2017	1.8740	2.873009e+04	0.0001	0.9999
	visitatio_rate:Year2018	2.5049	4.357388e+04	0.0001	1.0000
	visitatio_rate:Year2019	2.0579	3.715427e+04	0.0001	1.0000
	(Intercept)	24.4284	5.340055e+04	0.0005	0.9996
	visitatio_rate	1.9652	2.459155e+05	0.0000	1.0000
	Year2016	10678.4592	2.739713e+07	0.0004	0.9997
	Year2018	5159.0861	5.198474e+07	0.0001	0.9999
Cistus monspeliensis	Year2019	-22.8888	5.340055e+04	-0.0004	0.9997
	visitatio_rate:Year2016	751.9862	9.143231e+07	0.0000	1.0000
	visitatio_rate:Year2018	-2442.1480	1.147898e+08	0.0000	1.0000
	visitatio_rate:Year2019	7.6988	2.459155e+05	0.0000	1.0000
	(Intercept)	-0.1902	2.003700e+00	-0.0949	0.9244
	visitatio_rate	10.9329	8.187200e+00	1.3354	0.1818
	Year2016	18.9564	2.313962e+04	0.0008	0.9993
	Year2017	-0.9981	2.525500e+00	-0.3952	0.6927
Cistus salviifolius	Year2018	22.4279	7.538928e+04	0.0003	0.9998
	Year2019	0.3099	1.444800e+00	0.2145	0.8302
	visitatio_rate:Year2018	-4.5856	8.344359e+05	0.0000	1.0000
	(Intercept)	2.3691	3.935000e-01	6.0204	0.0000
	visitatio_rate	-0.4645	4.392000e-01	-1.0575	0.2903
	Year2016	20.8800	3.258119e+04	0.0006	0.9995
	Year2017	1.2101	2.398400e+00	0.5045	0.6139
	Year2018	22.1927	3.258336e+04	0.0007	0.9995
	Year2019	21.9319	2.838197e+04	0.0008	0.9994
	visitatio_rate:Year2016	1.0754	3.691922e+04	0.0000	1.0000

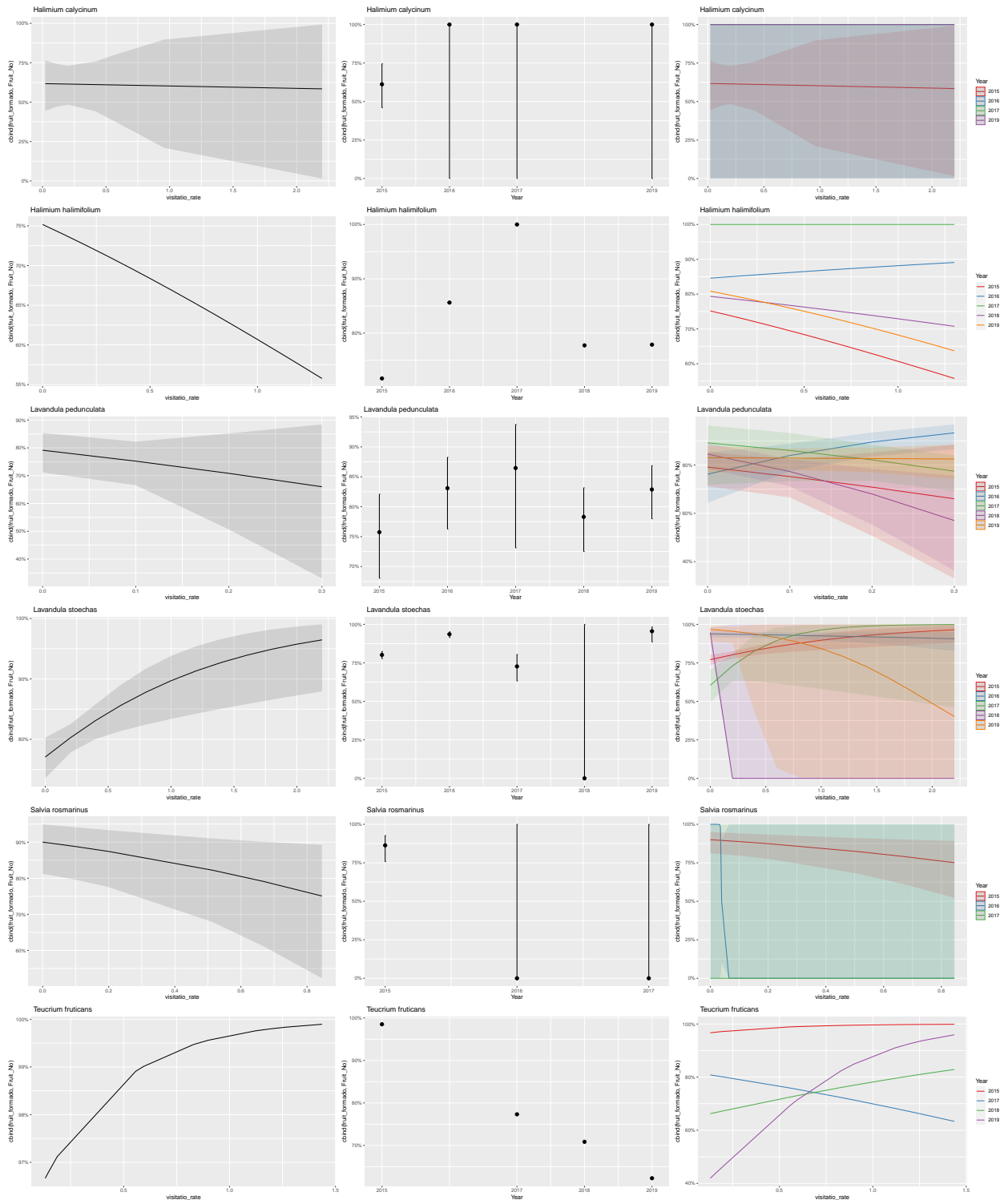
Halimium calycinum	visitatio_rate:Year2017	3.5038	1.120170e+01	0.3128	0.7544
	visitatio_rate:Year2018	-1.0669	7.015011e+04	0.0000	1.0000
	visitatio_rate:Year2019	-0.3900	1.723200e+04	0.0000	1.0000
	(Intercept)	0.4785	3.762000e-01	1.2719	0.2034
	visitatio_rate	-0.0631	1.156600e+00	-0.0546	0.9565
	Year2016	30.7545	2.158324e+07	0.0000	1.0000
	Year2017	36.2332	2.140244e+07	0.0000	1.0000
	Year2019	39.9254	1.486910e+07	0.0000	1.0000
	visitatio_rate:Year2016	-4.4631	2.854543e+08	0.0000	1.0000
Halimium halimifolium	visitatio_rate:Year2017	0.6269	1.495714e+07	0.0000	1.0000
	visitatio_rate:Year2019	7.1768	3.538730e+07	0.0000	1.0000
	(Intercept)	1.1081	5.800000e-01	1.9104	0.0561
	visitatio_rate	-0.6738	5.199900e+00	-0.1296	0.8969
	Year2016	0.5941	7.584000e-01	0.7834	0.4334
	Year2017	20.9112	3.542317e+04	0.0006	0.9995
	Year2018	0.2383	6.687000e-01	0.3564	0.7216
	Year2019	0.3312	1.222300e+00	0.2710	0.7864
	visitatio_rate:Year2016	0.9796	5.526900e+00	0.1772	0.8593
Lavandula pedunculata	visitatio_rate:Year2017	0.1136	7.937815e+04	0.0000	1.0000
	visitatio_rate:Year2018	0.3177	5.242400e+00	0.0606	0.9517
	(Intercept)	1.3340	2.197000e-01	6.0732	0.0000
	visitatio_rate	-2.2332	2.727100e+00	-0.8189	0.4129
	Year2016	-0.1704	3.060000e-01	-0.5568	0.5777
	Year2017	0.7758	6.572000e-01	1.1804	0.2378
	Year2018	0.3617	2.280000e-01	1.5865	0.1126
	Year2019	0.2548	2.049000e-01	1.2431	0.2138
	visitatio_rate:Year2016	7.1351	3.244200e+00	2.1994	0.0279
Lavandula stoechas	visitatio_rate:Year2017	-0.6865	3.412200e+00	-0.2012	0.8406
	visitatio_rate:Year2018	-2.4780	3.179300e+00	-0.7794	0.4357
	visitatio_rate:Year2019	2.1006	2.829500e+00	0.7424	0.4578
	(Intercept)	1.2123	9.700000e-02	12.4922	0.0000
	visitatio_rate	0.9523	3.325000e-01	2.8645	0.0042
	Year2016	1.5116	1.854000e-01	8.1550	0.0000
	Year2017	-0.7894	2.587000e-01	-3.0513	0.0023
	Year2018	1.6792	5.336000e-01	3.1470	0.0016
	Year2019	2.1916	6.814000e-01	3.2163	0.0013
Salvia rosmarinus	visitatio_rate:Year2016	-1.1572	3.826000e-01	-3.0248	0.0025
	visitatio_rate:Year2017	1.9214	1.723600e+00	1.1147	0.2650
	visitatio_rate:Year2018	-69.4699	6.215130e+01	-1.1178	0.2637
	visitatio_rate:Year2019	-2.6805	5.273100e+00	-0.5083	0.6112
	(Intercept)	2.1987	3.750000e-01	5.8627	0.0000
	visitatio_rate	-1.2967	5.780000e-01	-2.2436	0.0249
	Year2016	35.2657	8.741959e+06	0.0000	1.0000
	Year2017	-4421.5378	1.142492e+07	-0.0004	0.9997
	visitatio_rate:Year2016	-953.0326	2.226837e+08	0.0000	1.0000
Teucrium fruticans	visitatio_rate:Year2017	2937.0578	1.952164e+07	0.0002	0.9999
	(Intercept)	3.0207	6.571000e-01	4.5971	0.0000
	visitatio_rate	2.6685	3.921400e+00	0.6805	0.4962
	Year2017	-1.4942	9.340000e-01	-1.5997	0.1097
	Year2018	-2.4367	1.126700e+00	-2.1627	0.0306
	Year2019	-3.6926	3.105100e+00	-1.1892	0.2344
	visitatio_rate:Year2017	-3.3503	3.982200e+00	-0.8413	0.4002
	visitatio_rate:Year2018	-1.9768	4.055300e+00	-0.4875	0.6259

boundary (singular) fit: see help('isSingular') fixed-effect model matrix is rank deficient so dropping 3 columns / coefficients

ademas There were 30 warnings (use warnings() to see them) *Asphodelus* unable to evaluate scaled gradient and Hessian is numerically singular: parameters are not uniquely determined *C.crispus* Model failed to converge with $\max|\text{grad}| = 0.00813624$ (tol = 0.002, component 1) *Cistus ladanifer* unable to evaluate scaled gradient and Model failed to converge: degenerate Hessian with 1 negative eigenvalues *Cistus monspeliensis* unable to evaluate scaled gradient and Hessian is numerically singular: parameters are not uniquely determined *Cistus salviifolius* unable to evaluate scaled gradient and Model failed to converge: degenerate Hessian with 3 negative eigenvalues *Halimium halimifolium* unable to evaluate scaled gradient and Hessian is numerically singular: parameters are not uniquely determined *Lavandula stoechas* Model is nearly unidentifiable: large eigenvalue ratio - Rescale variables? *Salvia rosmarinu* unable to evaluate scaled gradient and Hessian is numerically singular: parameters are not uniquely determined

C. crispus, *C. ladanifer*, *C. salvifolius*, *H. halimifolium*, *L. pedunculata*, *L. stoechas* -> Data were ‘prettified’. Consider using terms=“visitatio_rate [all]” to get smooth plots. Could not compute variance-covariance matrix of predictions. No confidence intervals are returned





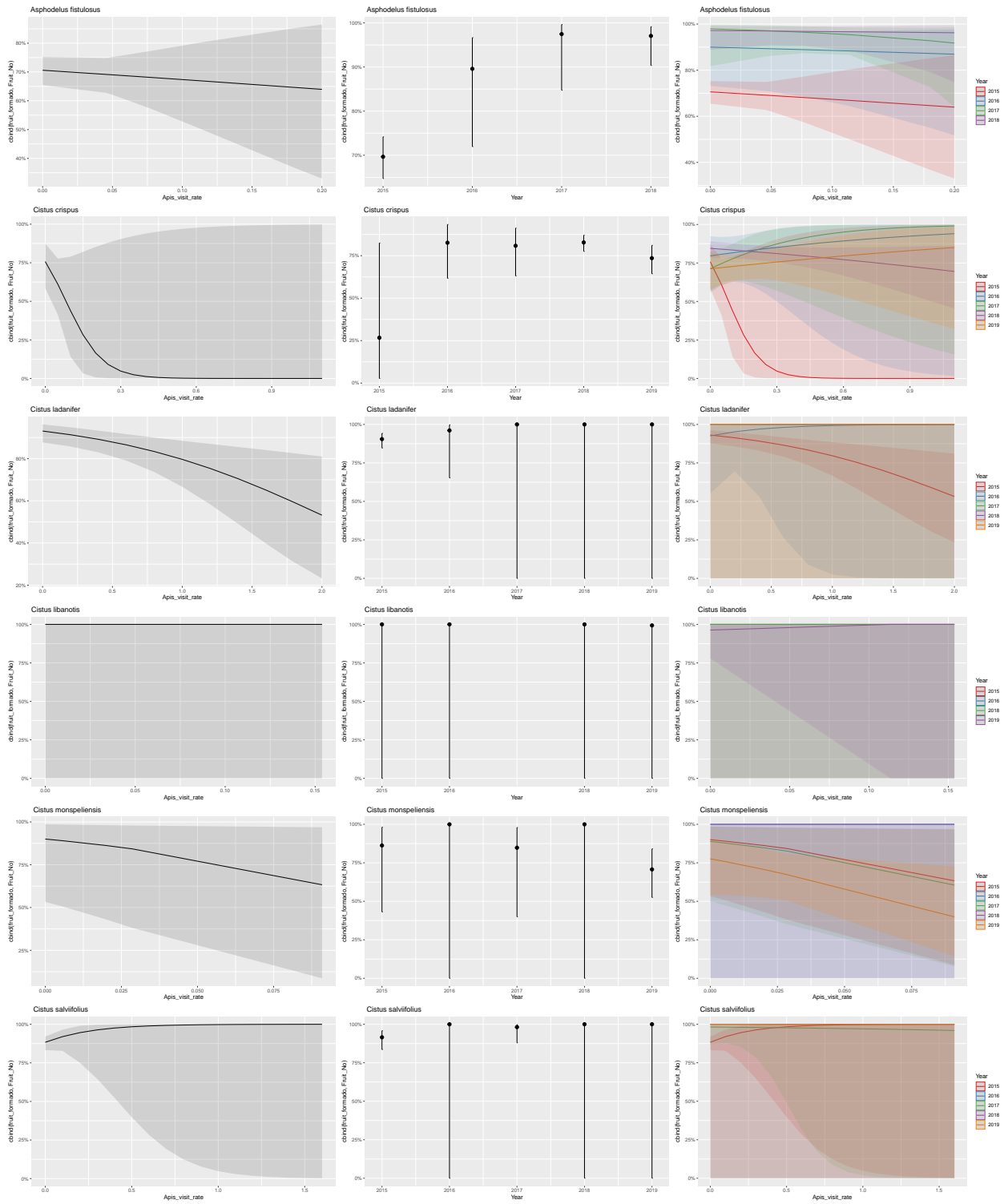
visitation rate of *Apis mellifera*

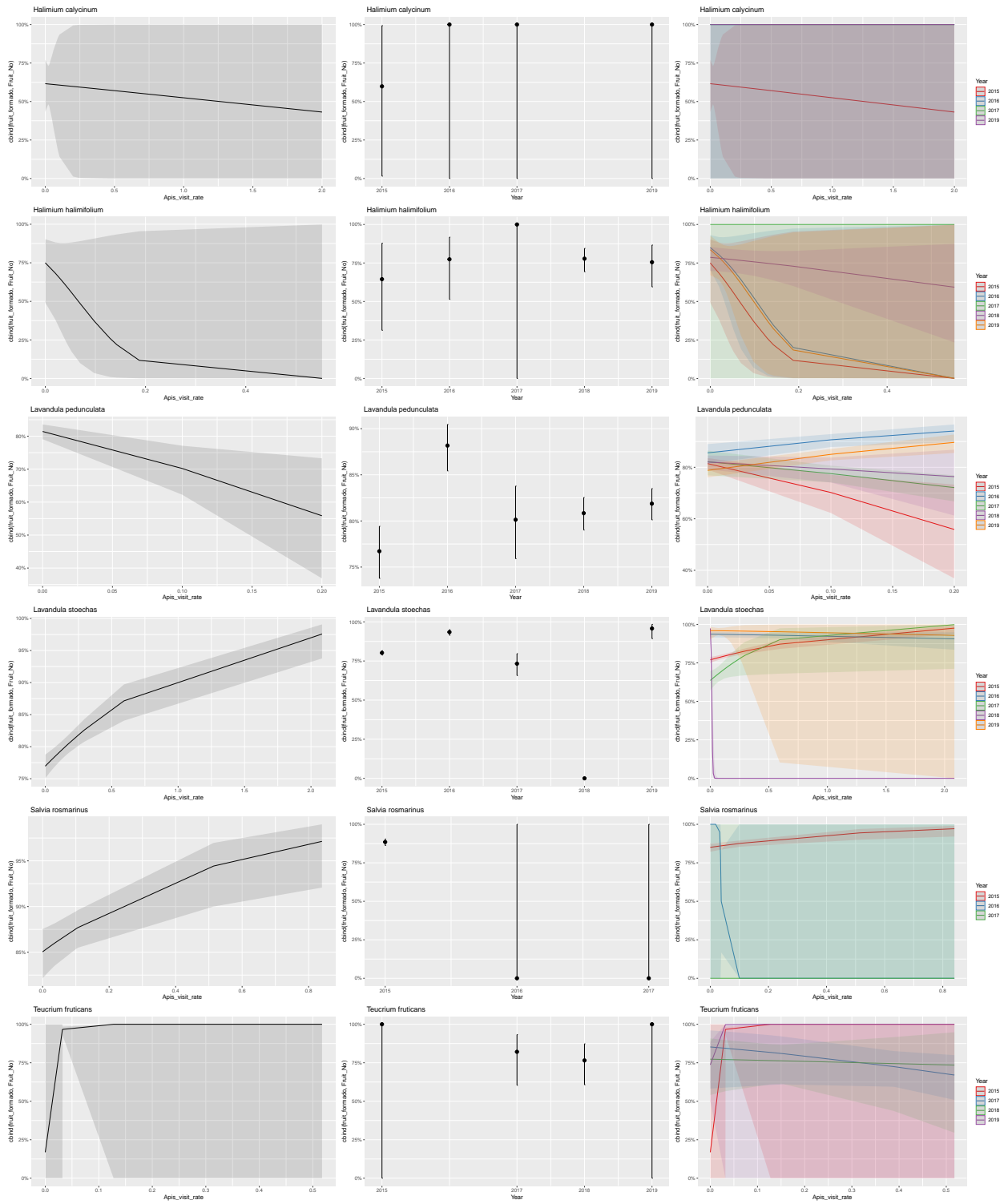
A- GLM binomial (cbind(fruit_formado, Fruit_No))

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	0.8758	0.1210	7.2397	0.0000
	Apis_visit_rate	-1.5113	3.5249	-0.4287	0.6681
	Year2016	1.3214	0.6205	2.1296	0.0332
	Year2017	2.9868	1.2113	2.4657	0.0137
	Year2018	2.6595	0.7564	3.5160	0.0004
	Apis_visit_rate:Year2016	NA	NA	NA	NA
	Apis_visit_rate:Year2017	-5.7587	9.5205	-0.6049	0.5453
	Apis_visit_rate:Year2018	0.0399	7.8059	0.0051	0.9959
Cistus crispus	(Intercept)	1.1394	0.4062	2.8051	0.0050
	Apis_visit_rate	-13.7940	9.6440	-1.4303	0.1526
	Year2016	0.2233	0.7034	0.3174	0.7509
	Year2017	-0.2328	0.5215	-0.4464	0.6553
	Year2018	0.5547	0.4556	1.2174	0.2234
	Year2019	-0.2348	0.5043	-0.4656	0.6415
	Apis_visit_rate:Year2016	15.0592	10.2299	1.4721	0.1410
	Apis_visit_rate:Year2017	17.2087	10.1138	1.7015	0.0888
	Apis_visit_rate:Year2018	13.0017	9.6599	1.3459	0.1783
	Apis_visit_rate:Year2019	14.5504	9.7335	1.4949	0.1349
Cistus ladanifer	(Intercept)	2.6028	0.3252	8.0045	0.0000
	Apis_visit_rate	-1.2375	0.4044	-3.0599	0.0022
	Year2016	-0.0835	1.2232	-0.0683	0.9456
	Year2017	18.4835	6775.9312	0.0027	0.9978
	Year2018	18.6475	6207.5154	0.0030	0.9976
	Year2019	18.1900	5590.8290	0.0033	0.9974
	Apis_visit_rate:Year2016	3.6123	4.8288	0.7481	0.4544
	Apis_visit_rate:Year2017	1.6332	13930.1697	0.0001	0.9999
	Apis_visit_rate:Year2018	0.8031	13252.6335	0.0001	1.0000
	Apis_visit_rate:Year2019	1.0736	7995.7093	0.0001	0.9999
Cistus libanotis	(Intercept)	24.5085	22502.0208	0.0011	0.9991
	Apis_visit_rate	130.6970	233588.5124	0.0006	0.9996
	Year2016	-0.8974	33268.2718	0.0000	1.0000
	Year2018	-0.9781	28474.8870	0.0000	1.0000
	Year2019	-21.2504	22502.0208	-0.0009	0.9992
	Apis_visit_rate:Year2016	NA	NA	NA	NA
	Apis_visit_rate:Year2018	-133.8460	356460.8381	-0.0004	0.9997
	Apis_visit_rate:Year2019	NA	NA	NA	NA
Cistus monspeliensis	(Intercept)	2.1972	1.0541	2.0845	0.0371
	Apis_visit_rate	-18.1700	11.4332	-1.5892	0.1120
	Year2016	19.1681	13220.3724	0.0014	0.9988
	Year2017	-0.1178	1.4954	-0.0788	0.9372
	Year2018	19.4841	10041.5979	0.0019	0.9985
	Year2019	-0.9550	1.1879	-0.8039	0.4214
	Apis_visit_rate:Year2016	NA	NA	NA	NA
	Apis_visit_rate:Year2017	NA	NA	NA	NA
	Apis_visit_rate:Year2018	31.3431	593539.6140	0.0001	1.0000
	Apis_visit_rate:Year2019	NA	NA	NA	NA
Cistus salviifolius	(Intercept)	2.0248	0.2155	9.3972	0.0000
	Apis_visit_rate	4.1632	4.7563	0.8753	0.3814
	Year2016	18.9357	4746.3084	0.0040	0.9968

Halimium calycinum	Year2017	1.9880	1.1011	1.8055	0.0710
	Year2018	19.2223	4194.4585	0.0046	0.9963
	Year2019	19.2562	4289.9265	0.0045	0.9964
	Apis_visit_rate:Year2016	-4.0347	7740.1017	-0.0005	0.9996
	Apis_visit_rate:Year2017	-4.6898	6.2497	-0.7504	0.4530
	Apis_visit_rate:Year2018	-2.4284	52950.7034	0.0000	1.0000
	Apis_visit_rate:Year2019	-4.2775	6964.6049	-0.0006	0.9995
	(Intercept)	0.4717	0.3794	1.2435	0.2137
	Apis_visit_rate	-0.3737	13.2998	-0.0281	0.9776
	Year2016	22.4676	29041.8202	0.0008	0.9994
	Year2017	23.1393	24503.8154	0.0009	0.9992
	Year2019	22.7489	16039.2002	0.0014	0.9989
	Apis_visit_rate:Year2016	NA	NA	NA	NA
	Apis_visit_rate:Year2017	0.5302	20793.2503	0.0000	1.0000
	Apis_visit_rate:Year2019	0.9918	81793.7112	0.0000	1.0000
Halimium halimifolium	(Intercept)	1.0986	0.5774	1.9029	0.0571
	Apis_visit_rate	-16.6086	13.4131	-1.2382	0.2156
	Year2016	0.6360	0.7276	0.8741	0.3821
	Year2017	18.9738	3178.0033	0.0060	0.9952
	Year2018	0.2063	0.6247	0.3303	0.7412
	Year2019	0.5307	0.7431	0.7141	0.4752
	Apis_visit_rate:Year2016	NA	NA	NA	NA
	Apis_visit_rate:Year2017	14.5308	30057.7835	0.0005	0.9996
	Apis_visit_rate:Year2018	14.9259	13.5027	1.1054	0.2690
	Apis_visit_rate:Year2019	NA	NA	NA	NA
	(Intercept)	1.4781	0.0755	19.5889	0.0000
	Apis_visit_rate	-6.2129	2.1812	-2.8484	0.0044
	Year2016	0.3044	0.1744	1.7457	0.0809
	Year2017	0.0492	0.1832	0.2687	0.7882
	Year2018	0.0411	0.1204	0.3416	0.7327
Lavandula pedunculata	Year2019	-0.1654	0.1097	-1.5081	0.1315
	Apis_visit_rate:Year2016	11.1335	2.8747	3.8730	0.0001
	Apis_visit_rate:Year2017	3.3271	2.4658	1.3493	0.1772
	Apis_visit_rate:Year2018	4.4816	3.0905	1.4501	0.1470
	Apis_visit_rate:Year2019	10.4529	2.4912	4.1959	0.0000
	(Intercept)	1.2060	0.0532	22.6676	0.0000
	Apis_visit_rate	1.1947	0.2545	4.6934	0.0000
	Year2016	1.4883	0.1714	8.6819	0.0000
	Year2017	-0.6482	0.1508	-4.2988	0.0000
	Year2018	2.4157	0.4563	5.2945	0.0000
	Year2019	1.9591	0.4975	3.9379	0.0001
	Apis_visit_rate:Year2016	-1.3993	0.3134	-4.4651	0.0000
	Apis_visit_rate:Year2017	1.5807	1.3926	1.1351	0.2563
	Apis_visit_rate:Year2018	-274.7869	65.4341	-4.1994	0.0000
	Apis_visit_rate:Year2019	-1.4848	5.1056	-0.2908	0.7712
Salvia rosmarinus	(Intercept)	1.7382	0.1081	16.0825	0.0000
	Apis_visit_rate	2.1249	0.7028	3.0234	0.0025
	Year2016	18.7867	4622.5650	0.0041	0.9968
	Year2017	-22.3040	2993.7198	-0.0075	0.9941
	Apis_visit_rate:Year2016	-547.0471	122725.8483	-0.0045	0.9964
	Apis_visit_rate:Year2017	-1.9725	5004.0857	-0.0004	0.9997
	(Intercept)	-1.5957	1114.8778	-0.0014	0.9989
	Apis_visit_rate	152.8614	34338.2326	0.0045	0.9964
	Year2017	3.3513	1114.8780	0.0030	0.9976
	Year2018				
	Year2019				
	Apis_visit_rate:Year2016				
	Apis_visit_rate:Year2017				
	Apis_visit_rate:Year2018				
	Apis_visit_rate:Year2019				
Teucrium fruticans	(Intercept)				
	Apis_visit_rate				
	Year2017				

Year2018	2.8227	1114.8779	0.0025	0.9980
Year2019	2.6254	1114.8778	0.0024	0.9981
Apis_visit_rate:Year2017	-154.8841	34338.2326	-0.0045	0.9964
Apis_visit_rate:Year2018	-153.2627	34338.2327	-0.0045	0.9964
Apis_visit_rate:Year2019	NA	NA	NA	NA

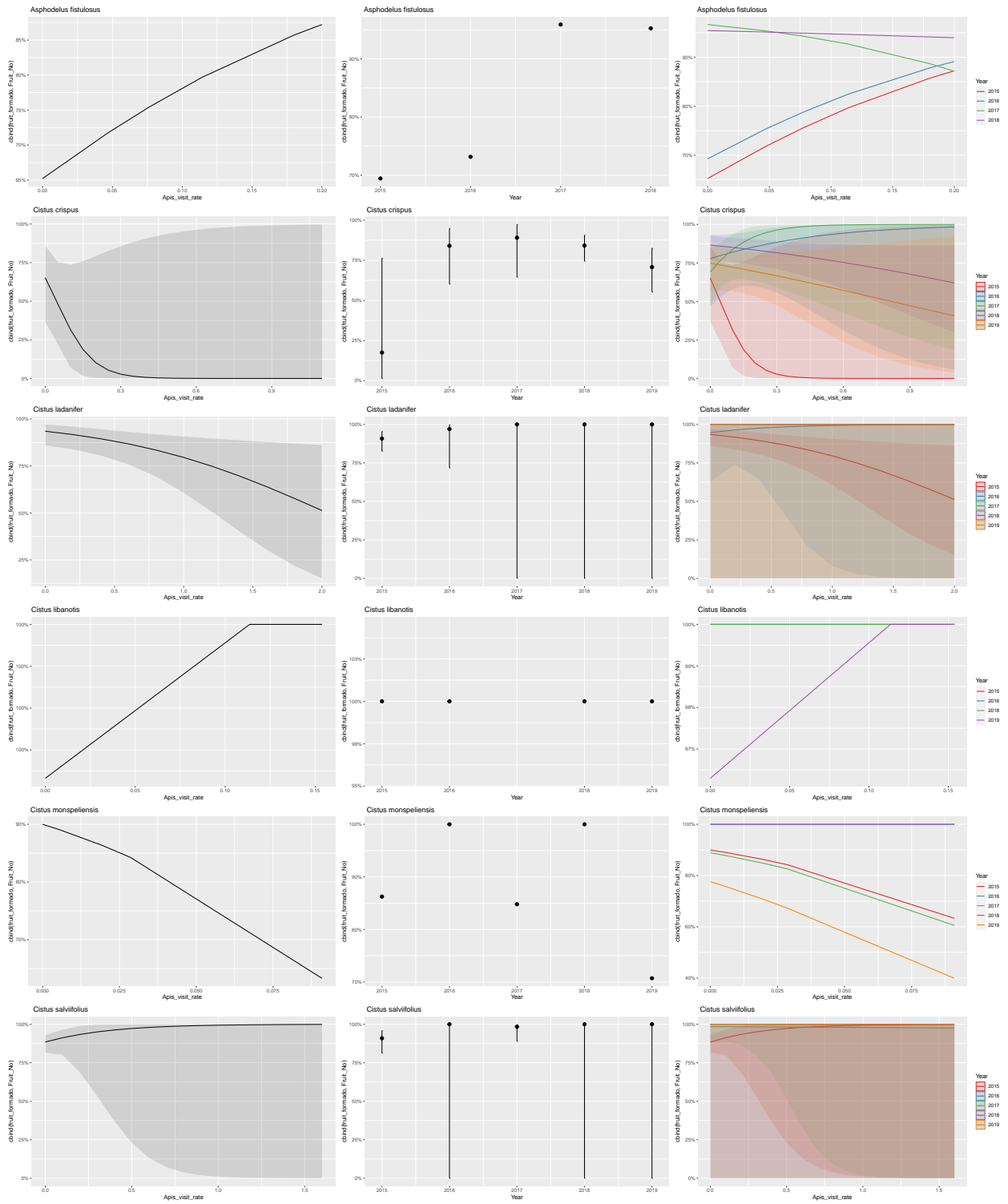


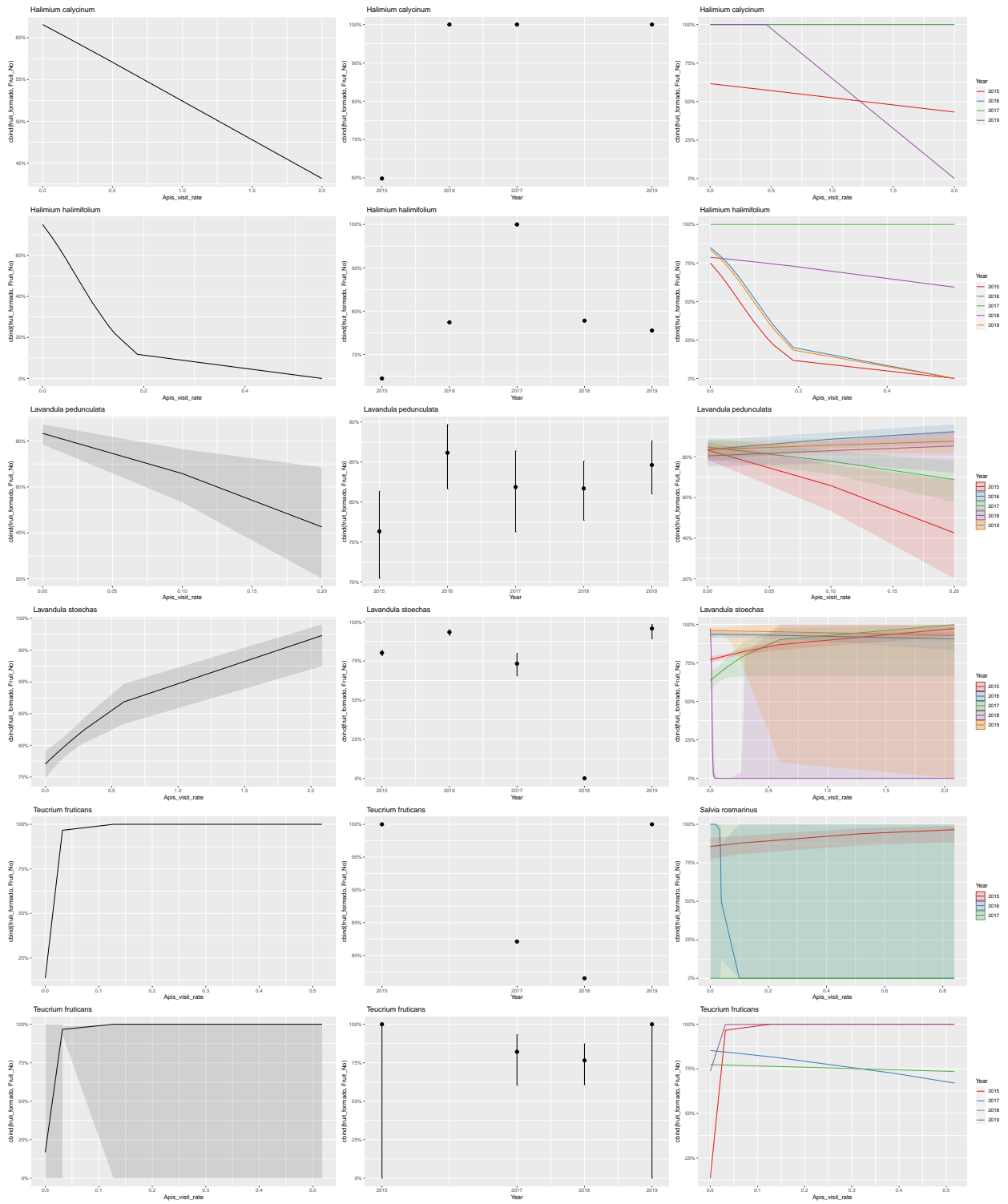


B- GLMM binomial (ramdon= Site_ID)

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	0.6290	8.346000e-01	0.7537	0.4510
	Apis_visit_rate	6.4561	5.133600e+00	1.2576	0.2085
	Year2016	0.1827	6.425000e-01	0.2843	0.7762
	Year2017	2.7411	1.238000e+00	2.2142	0.0268
	Year2018	2.4135	8.048000e-01	2.9987	0.0027
	Apis_visit_rate:Year2017	-13.7378	1.018540e+01	-1.3488	0.1774
	Apis_visit_rate:Year2018	-7.9299	8.620600e+00	-0.9199	0.3576
	(Intercept)	0.6276	6.013000e-01	1.0437	0.2966
Cistus crispus	Apis_visit_rate	-13.9777	9.703400e+00	-1.4405	0.1497
	Year2016	0.6293	8.753000e-01	0.7189	0.4722
	Year2017	0.1853	6.502000e-01	0.2850	0.7756
	Year2018	1.2401	6.114000e-01	2.0282	0.0425
	Year2019	0.4634	6.674000e-01	0.6943	0.4875
	Apis_visit_rate:Year2016	16.5772	1.030610e+01	1.6085	0.1077
	Apis_visit_rate:Year2017	22.2281	1.112900e+01	1.9973	0.0458
	Apis_visit_rate:Year2018	12.7257	9.729100e+00	1.3080	0.1909
Cistus ladanifer	Apis_visit_rate:Year2019	12.6430	9.816200e+00	1.2880	0.1978
	(Intercept)	2.6667	4.353000e-01	6.1261	0.0000
	Apis_visit_rate	-1.3079	5.328000e-01	-2.4547	0.0141
	Year2016	0.2110	1.233200e+00	0.1711	0.8641
	Year2017	20.9203	4.037160e+04	0.0005	0.9996
	Year2018	21.4105	3.939630e+04	0.0005	0.9996
	Year2019	20.2530	2.153808e+04	0.0009	0.9992
	Apis_visit_rate:Year2016	3.3831	4.133800e+00	0.8184	0.4131
Cistus libanotis	Apis_visit_rate:Year2017	0.6487	6.227303e+04	0.0000	1.0000
	Apis_visit_rate:Year2018	-0.7044	6.326739e+04	0.0000	1.0000
	Apis_visit_rate:Year2019	0.0073	1.743019e+04	0.0000	1.0000
	(Intercept)	26.3285	9.216590e+04	0.0003	0.9998
	Apis_visit_rate	5265.7139	2.181038e+08	0.0000	1.0000
	Year2016	2999.9754	2.023429e+07	0.0001	0.9999
	Year2018	7.1215	4.045168e+06	0.0000	1.0000
	Year2019	-23.0704	9.216590e+04	-0.0003	0.9998
Cistus monspeliensis	Apis_visit_rate:Year2018	-418.4168	3.208327e+08	0.0000	1.0000
	(Intercept)	2.1972	1.054100e+00	2.0845	0.0371
	Apis_visit_rate	-18.1700	1.143320e+01	-1.5892	0.1120
	Year2016	33.9486	3.355443e+07	0.0000	1.0000
	Year2017	-0.1178	1.495400e+00	-0.0788	0.9372
	Year2018	38.8854	2.130068e+07	0.0000	1.0000
	Year2019	-0.9550	1.187900e+00	-0.8039	0.4214
	Apis_visit_rate:Year2018	-3.2014	1.141075e+09	0.0000	1.0000
Cistus salviifolius	(Intercept)	2.0370	2.801000e-01	7.2717	0.0000
	Apis_visit_rate	3.0578	5.029300e+00	0.6080	0.5432
	Year2016	21.0054	2.196497e+04	0.0010	0.9992
	Year2017	2.1147	1.131500e+00	1.8690	0.0616
	Year2018	21.9927	2.635246e+04	0.0008	0.9993
	Year2019	21.8917	2.664095e+04	0.0008	0.9993
	Apis_visit_rate:Year2016	-3.5959	2.552989e+04	-0.0001	0.9999
	Apis_visit_rate:Year2017	-3.3560	6.587900e+00	-0.5094	0.6105
	Apis_visit_rate:Year2018	-2.1787	3.267239e+05	0.0000	1.0000
	Apis_visit_rate:Year2019	-3.1342	3.910243e+04	-0.0001	0.9999

Halimium calycinum	(Intercept)	0.4717	3.794000e-01	1.2435	0.2137
	Apis_visit_rate	-0.3737	1.329980e+01	-0.0281	0.9776
	Year2016	427.4789	3.355443e+07	0.0000	1.0000
	Year2017	82.0341	2.023408e+07	0.0000	1.0000
	Year2019	414.7283	1.563379e+07	0.0000	1.0000
	Apis_visit_rate:Year2017	-21.5946	1.559141e+07	0.0000	1.0000
	Apis_visit_rate:Year2019	-221.2614	7.394017e+07	0.0000	1.0000
Halimium halimifolium	(Intercept)	1.0986	5.774000e-01	1.9029	0.0571
	Apis_visit_rate	-16.6086	1.341310e+01	-1.2382	0.2156
	Year2016	0.6360	7.276000e-01	0.8741	0.3821
	Year2017	34.5562	1.043542e+07	0.0000	1.0000
	Year2018	0.2063	6.247000e-01	0.3303	0.7412
	Year2019	0.5307	7.431000e-01	0.7141	0.4752
	Apis_visit_rate:Year2017	9.1929	8.213107e+07	0.0000	1.0000
	Apis_visit_rate:Year2018	14.9259	1.350270e+01	1.1054	0.2690
Lavandula pedunculata	(Intercept)	1.6098	1.590000e-01	10.1264	0.0000
	Apis_visit_rate	-9.5420	3.031900e+00	-3.1472	0.0016
	Year2016	0.0188	2.237000e-01	0.0841	0.9330
	Year2017	0.1114	2.171000e-01	0.5134	0.6077
	Year2018	-0.1941	1.730000e-01	-1.1219	0.2619
	Year2019	0.0182	1.553000e-01	0.1169	0.9069
	Apis_visit_rate:Year2016	13.8732	3.515200e+00	3.9467	0.0001
	Apis_visit_rate:Year2017	4.8977	3.329400e+00	1.4710	0.1413
Lavandula stoechas	Apis_visit_rate:Year2018	11.2825	4.007900e+00	2.8151	0.0049
	Apis_visit_rate:Year2019	11.2265	3.245000e+00	3.4596	0.0005
	(Intercept)	1.2108	6.300000e-02	19.2147	0.0000
	Apis_visit_rate	1.1429	2.809000e-01	4.0693	0.0000
	Year2016	1.4757	1.740000e-01	8.4817	0.0000
	Year2017	-0.6526	1.631000e-01	-4.0024	0.0001
	Year2018	2.4120	4.595000e-01	5.2494	0.0000
	Year2019	1.9459	5.018000e-01	3.8778	0.0001
Salvia rosmarinus	Apis_visit_rate:Year2016	-1.3490	3.343000e-01	-4.0357	0.0001
	Apis_visit_rate:Year2017	1.6341	1.456800e+00	1.1217	0.2620
	Apis_visit_rate:Year2018	-275.9674	6.591170e+01	-4.1869	0.0000
	Apis_visit_rate:Year2019	-1.4331	5.106800e+00	-0.2806	0.7790
	(Intercept)	1.7825	2.878000e-01	6.1934	0.0000
	Apis_visit_rate	1.8380	8.083000e-01	2.2738	0.0230
	Year2016	21.0813	2.073487e+04	0.0010	0.9992
	Year2017	-24.7841	1.574607e+04	-0.0016	0.9987
Teucrium fruticans	Apis_visit_rate:Year2016	-608.8569	5.504963e+05	-0.0011	0.9991
	Apis_visit_rate:Year2017	-0.6791	2.271417e+04	0.0000	1.0000
	(Intercept)	-1.8501	3.030499e+03	-0.0006	0.9995
	Apis_visit_rate	160.6945	9.333937e+04	0.0017	0.9986
	Year2017	3.6056	3.030499e+03	0.0012	0.9991
	Year2018	3.0770	3.030499e+03	0.0010	0.9992
	Year2019	2.8797	3.030499e+03	0.0010	0.9992
	Apis_visit_rate:Year2017	-162.7171	9.333937e+04	-0.0017	0.9986
	Apis_visit_rate:Year2018	-161.0958	9.333937e+04	-0.0017	0.9986





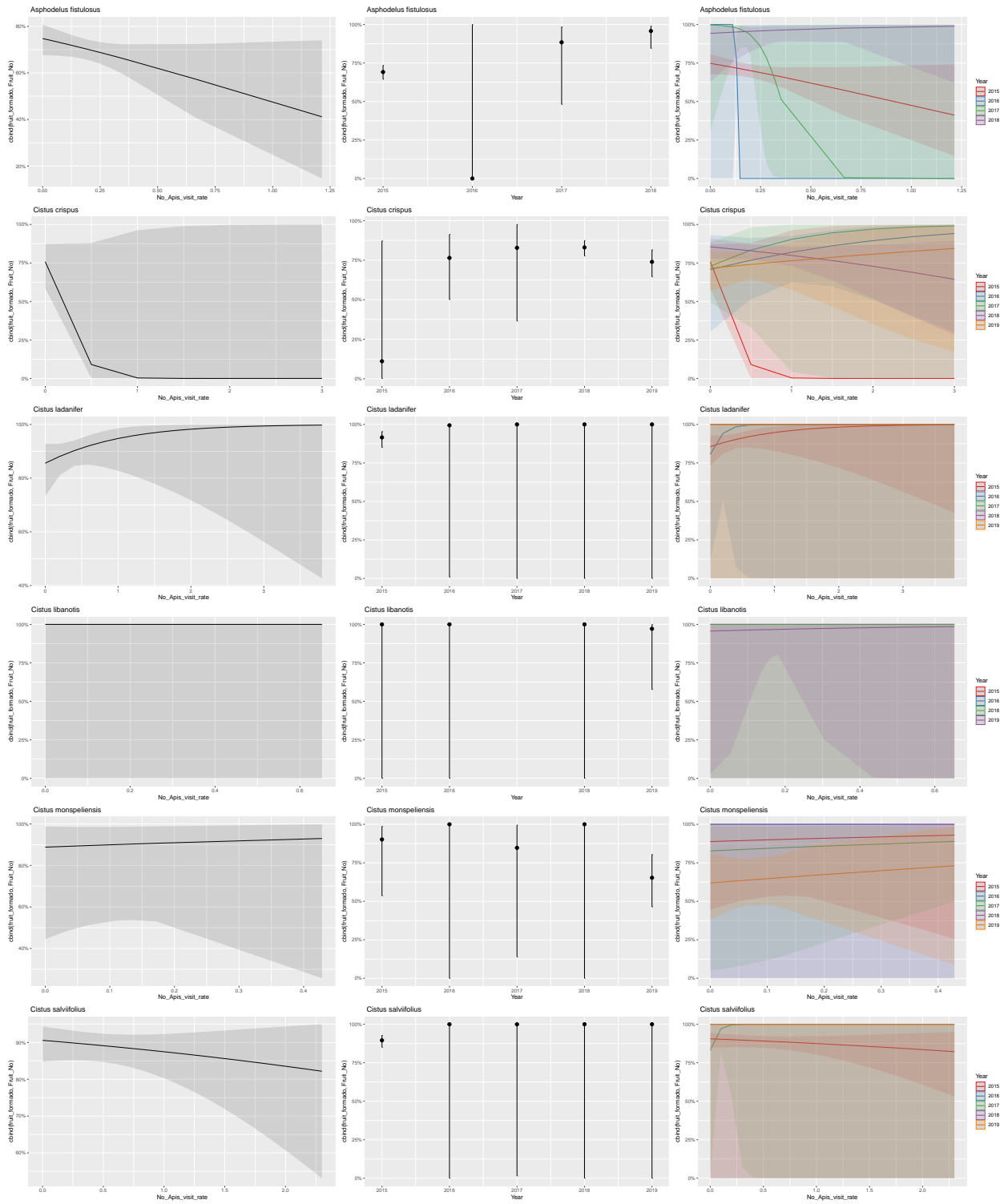
visitation rate of pollinator without *Apis mellifera*

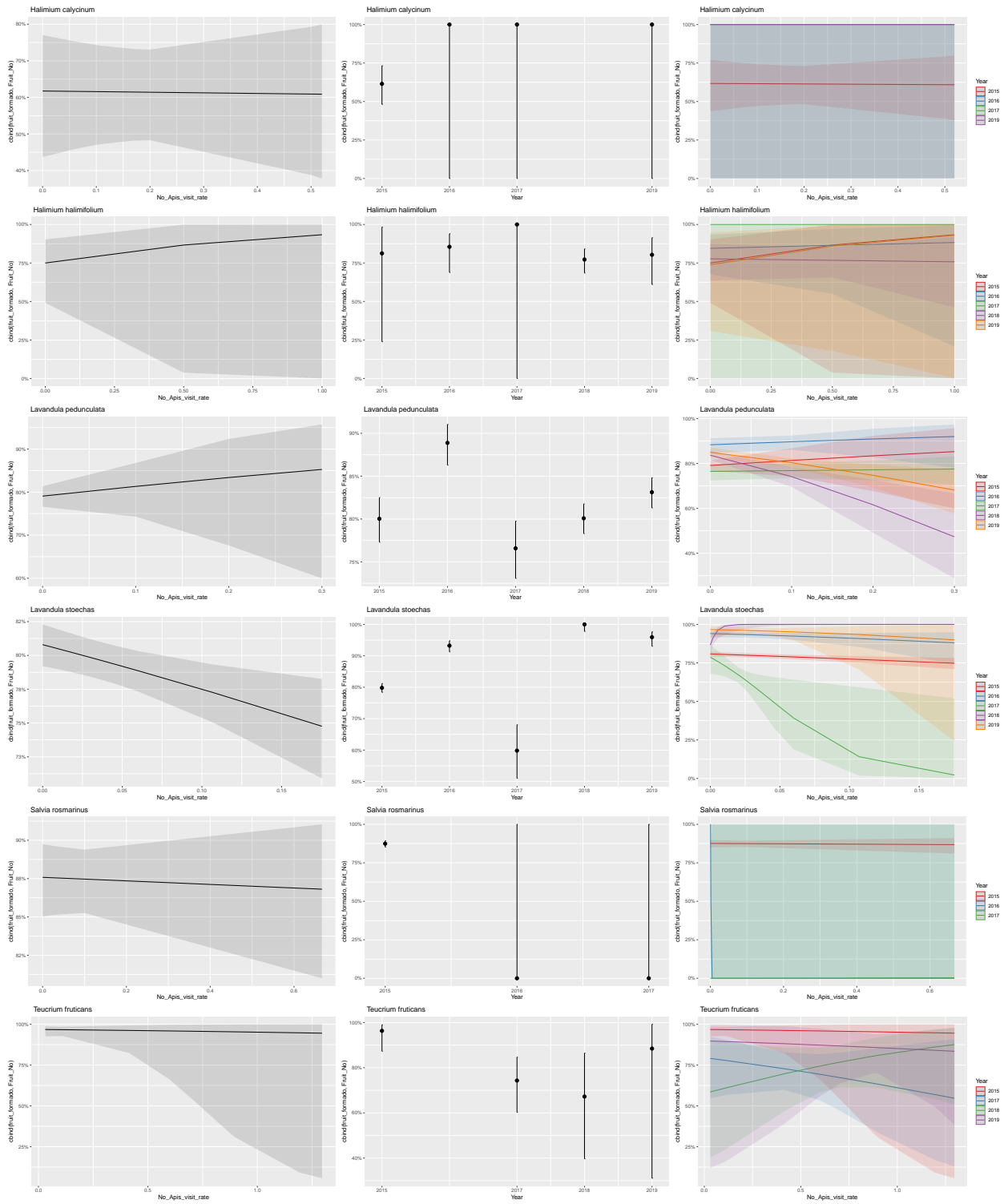
A- GLM binomial (cbind(fruit_formado, Fruit_No))

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	1.0868	0.1780	6.1046	0.0000
	No_Apis_visit_rate	-1.1892	0.7019	-1.6943	0.0902
	Year2016	110.7904	6587.5757	0.0168	0.9866
	Year2017	4.9039	3.4768	1.4104	0.1584
	Year2018	1.7070	1.1766	1.4508	0.1468
	No_Apis_visit_rate:Year2016	-847.3057	50504.7499	-0.0168	0.9866
	No_Apis_visit_rate:Year2017	-15.6385	18.3863	-0.8506	0.3950
	No_Apis_visit_rate:Year2018	2.6019	2.5417	1.0237	0.3060
Cistus crispus	(Intercept)	1.1394	0.4062	2.8051	0.0050
	No_Apis_visit_rate	-6.8970	4.8220	-1.4303	0.1526
	Year2016	-0.2571	0.9623	-0.2671	0.7894
	Year2017	-0.1477	0.6569	-0.2248	0.8221
	Year2018	0.6359	0.4861	1.3083	0.1908
	Year2019	-0.2158	0.5229	-0.4128	0.6798
	No_Apis_visit_rate:Year2016	7.5287	4.8931	1.5386	0.1239
	No_Apis_visit_rate:Year2017	8.1414	5.7538	1.4150	0.1571
	No_Apis_visit_rate:Year2018	6.5028	4.8328	1.3456	0.1784
	No_Apis_visit_rate:Year2019	7.1521	4.8631	1.4707	0.1414
Cistus ladanifer	(Intercept)	1.7798	0.3922	4.5382	0.0000
	No_Apis_visit_rate	1.1155	0.9231	1.2085	0.2269
	Year2016	-0.3501	1.8011	-0.1944	0.8459
	Year2017	19.5040	9976.6257	0.0020	0.9984
	Year2018	19.3275	5708.8097	0.0034	0.9973
	Year2019	18.9695	6145.5723	0.0031	0.9975
	No_Apis_visit_rate:Year2016	5.7342	11.7276	0.4889	0.6249
	No_Apis_visit_rate:Year2017	-1.1971	7683.2757	-0.0002	0.9999
	No_Apis_visit_rate:Year2018	-1.1025	4248.0535	-0.0003	0.9998
	No_Apis_visit_rate:Year2019	-1.1964	14362.1831	-0.0001	0.9999
Cistus libanotis	(Intercept)	23.8697	21962.3197	0.0011	0.9991
	No_Apis_visit_rate	-1.3333	62558.9652	0.0000	1.0000
	Year2016	-1.1868	30289.5170	0.0000	1.0000
	Year2018	-1.6714	31970.3455	-0.0001	1.0000
	Year2019	-20.7840	21962.3199	-0.0009	0.9992
	No_Apis_visit_rate:Year2016	1.0040	91650.1779	0.0000	1.0000
	No_Apis_visit_rate:Year2018	1.8881	82774.1664	0.0000	1.0000
	No_Apis_visit_rate:Year2019	3.0509	62558.9677	0.0000	1.0000
Cistus monspeliensis	(Intercept)	2.0699	1.1695	1.7699	0.0767
	No_Apis_visit_rate	1.1972	4.7617	0.2514	0.8015
	Year2016	18.1358	8018.5612	0.0023	0.9982
	Year2017	-0.5035	2.1424	-0.2350	0.8142
	Year2018	18.3643	10879.3505	0.0017	0.9987
	Year2019	-1.5833	1.1146	-1.4205	0.1555
	No_Apis_visit_rate:Year2016	NA	NA	NA	NA
	No_Apis_visit_rate:Year2017	NA	NA	NA	NA
	No_Apis_visit_rate:Year2018	4.3764	137717.5853	0.0000	1.0000
	No_Apis_visit_rate:Year2019	NA	NA	NA	NA
Cistus salviifolius	(Intercept)	2.2624	0.2791	8.1065	0.0000
	No_Apis_visit_rate	-0.3192	0.3834	-0.8325	0.4052
	Year2016	18.6297	5710.1563	0.0033	0.9974

Halimium calycinum	Year2017	-0.6651	2.5434	-0.2615	0.7937
	Year2018	19.2589	4975.7980	0.0039	0.9969
	Year2019	19.1132	4382.4097	0.0044	0.9965
	No_Apis_visit_rate:Year2016	0.5679	9202.7446	0.0001	1.0000
	No_Apis_visit_rate:Year2017	19.3997	24.1008	0.8049	0.4209
	No_Apis_visit_rate:Year2018	-0.4564	13883.9841	0.0000	1.0000
	No_Apis_visit_rate:Year2019	-0.2150	9639.2181	0.0000	1.0000
	(Intercept)	0.4787	0.3734	1.2820	0.1999
	No_Apis_visit_rate	-0.0703	1.2491	-0.0563	0.9551
	Year2016	20.4390	209680.2832	0.0001	0.9999
Halimium halimifolium	Year2017	22.8986	50160.6956	0.0005	0.9996
	Year2019	22.7309	14183.5080	0.0016	0.9987
	No_Apis_visit_rate:Year2016	28.0929	2881895.1131	0.0000	1.0000
	No_Apis_visit_rate:Year2017	2.4632	321730.2879	0.0000	1.0000
	No_Apis_visit_rate:Year2019	0.9277	75656.9538	0.0000	1.0000
	(Intercept)	1.0986	0.5774	1.9029	0.0571
	No_Apis_visit_rate	1.5429	5.0757	0.3040	0.7611
	Year2016	0.5971	0.7580	0.7878	0.4308
	Year2017	18.9909	9326.0239	0.0020	0.9984
	Year2018	0.1501	0.6767	0.2219	0.8244
Lavandula pedunculata	Year2019	-0.0593	1.1062	-0.0536	0.9572
	No_Apis_visit_rate:Year2016	-1.2203	5.4075	-0.2257	0.8215
	No_Apis_visit_rate:Year2017	-1.9187	23913.6741	-0.0001	0.9999
	No_Apis_visit_rate:Year2018	-1.6531	5.1548	-0.3207	0.7484
	No_Apis_visit_rate:Year2019	NA	NA	NA	NA
	(Intercept)	1.3292	0.0736	18.0636	0.0000
	No_Apis_visit_rate	1.4197	2.4333	0.5835	0.5596
	Year2016	0.6920	0.1777	3.8935	0.0001
	Year2017	-0.1528	0.1303	-1.1729	0.2408
	Year2018	0.3031	0.1028	2.9490	0.0032
Lavandula stoechas	Year2019	0.3996	0.1147	3.4822	0.0005
	No_Apis_visit_rate:Year2016	-0.0290	3.3545	-0.0086	0.9931
	No_Apis_visit_rate:Year2017	-1.2173	2.5390	-0.4795	0.6316
	No_Apis_visit_rate:Year2018	-7.2217	2.8615	-2.5238	0.0116
	No_Apis_visit_rate:Year2019	-4.6510	2.6164	-1.7776	0.0755
	(Intercept)	1.4368	0.0508	28.2612	0.0000
	No_Apis_visit_rate	-2.0017	0.6577	-3.0436	0.0023
	Year2016	1.3211	0.1926	6.8590	0.0000
	Year2017	-0.1322	0.2844	-0.4646	0.6422
	Year2018	0.4268	0.2653	1.6090	0.1076
Salvia rosmarinus	Year2019	1.9276	0.5081	3.7939	0.0001
	No_Apis_visit_rate:Year2016	-2.3643	3.3640	-0.7028	0.4822
	No_Apis_visit_rate:Year2017	-27.1122	12.7354	-2.1289	0.0333
	No_Apis_visit_rate:Year2018	252.3762	100.2693	2.5170	0.0118
	No_Apis_visit_rate:Year2019	-4.6802	11.9635	-0.3912	0.6956
	(Intercept)	1.9532	0.1102	17.7259	0.0000
	No_Apis_visit_rate	-0.1037	0.3868	-0.2680	0.7887
	Year2016	28.6748	6897.9555	0.0042	0.9967
	Year2017	-22.5028	2592.6757	-0.0087	0.9931
	No_Apis_visit_rate:Year2016	-19244.5002	4334215.4285	-0.0044	0.9965
Teucrium fruticans	No_Apis_visit_rate:Year2017	22.4495	733932.5568	0.0000	1.0000
	(Intercept)	3.4096	0.4757	7.1674	0.0000
	No_Apis_visit_rate	-0.4345	2.3832	-0.1823	0.8553
	Year2017	-2.0538	0.7797	-2.6342	0.0084

Year2018	-3.1044	1.0855	-2.8598	0.0042
Year2019	-1.2307	2.0102	-0.6122	0.5404
No_Apis_visit_rate:Year2017	-0.4673	2.6747	-0.1747	0.8613
No_Apis_visit_rate:Year2018	1.7026	2.7615	0.6166	0.5375
No_Apis_visit_rate:Year2019	NA	NA	NA	NA

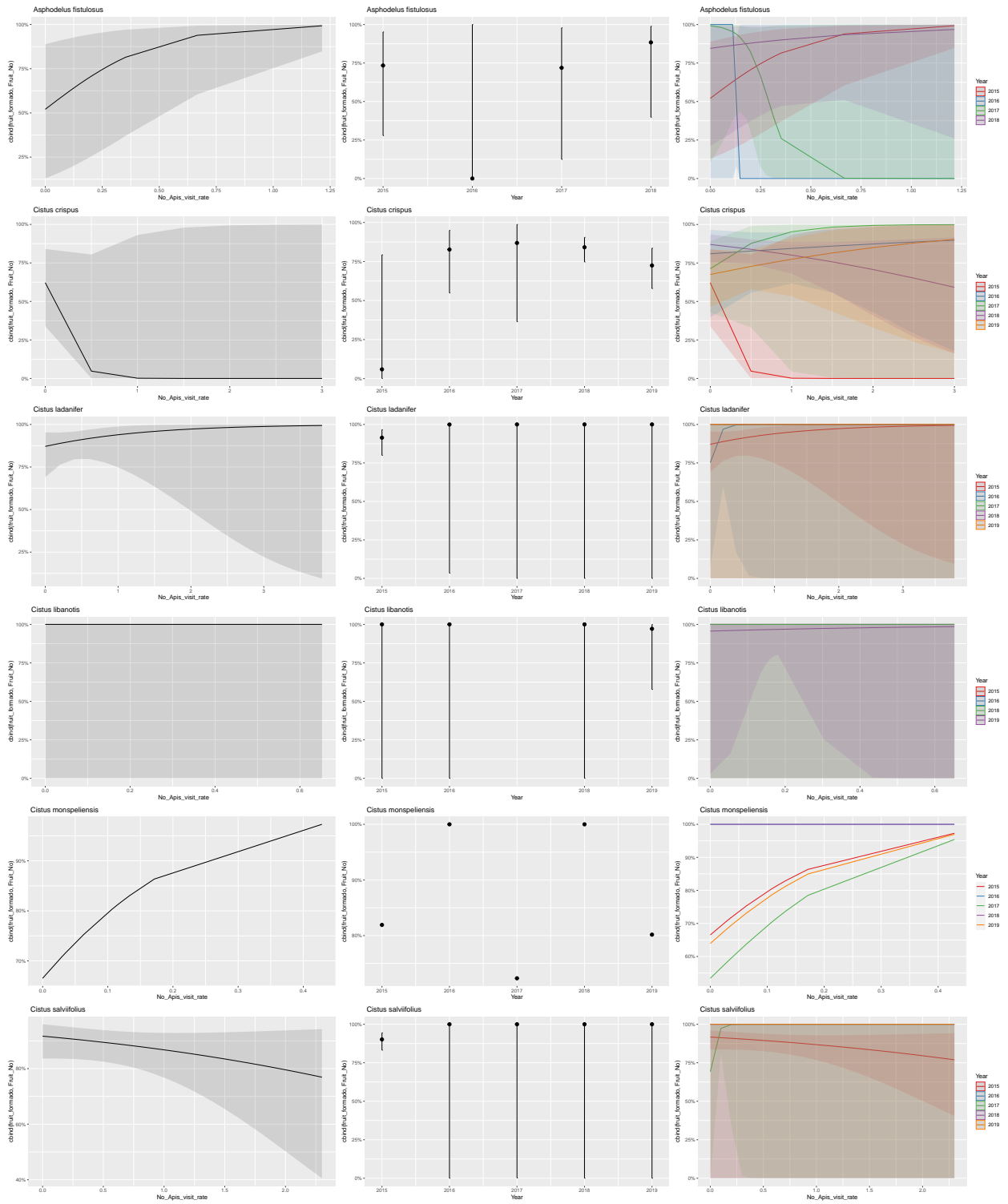


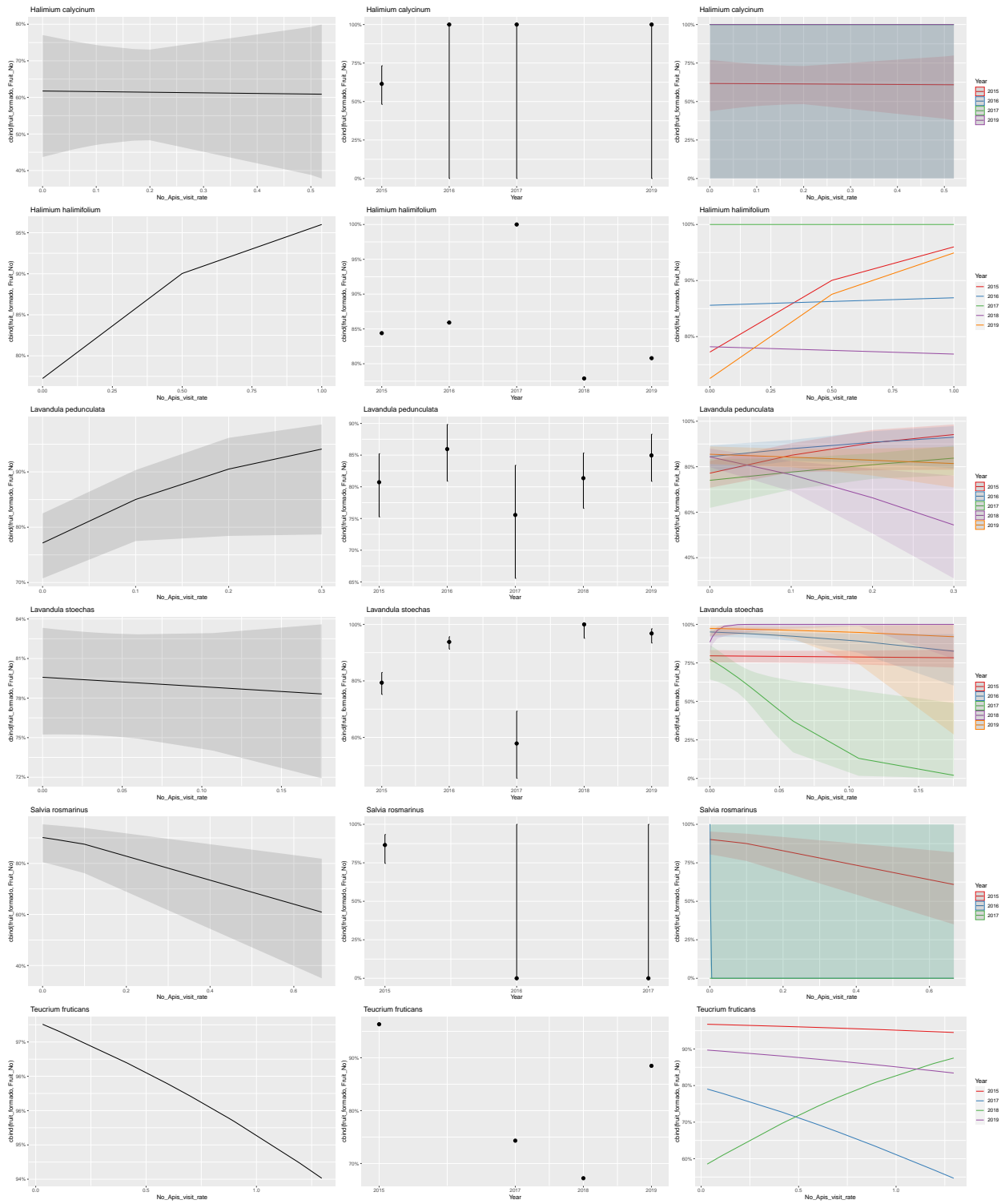


B- GLMM binomial (ramdon= Site_ID)

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	0.0820	1.015800e+00	0.0807	0.9357
	No_Apis_visit_rate	3.9702	1.210100e+00	3.2808	0.0010
	Year2016	123.9920	1.155367e+02	1.0732	0.2832
	Year2017	4.8160	3.458200e+00	1.3926	0.1637
	Year2018	1.6162	1.181700e+00	1.3677	0.1714
	No_Apis_visit_rate:Year2016	-955.7670	8.857659e+02	-1.0790	0.2806
	No_Apis_visit_rate:Year2017	-20.8160	1.829530e+01	-1.1378	0.2552
	No_Apis_visit_rate:Year2018	-2.5562	2.712600e+00	-0.9423	0.3460
Cistus crispus	(Intercept)	0.4964	5.943000e-01	0.8352	0.4036
	No_Apis_visit_rate	-6.9854	4.846500e+00	-1.4413	0.1495
	Year2016	0.9529	1.100100e+00	0.8662	0.3864
	Year2017	0.4134	7.813000e-01	0.5291	0.5967
	Year2018	1.4080	6.923000e-01	2.0338	0.0420
	Year2019	0.2363	6.568000e-01	0.3598	0.7190
	No_Apis_visit_rate:Year2016	7.2261	4.918500e+00	1.4692	0.1418
	No_Apis_visit_rate:Year2017	9.0862	5.993200e+00	1.5161	0.1295
Cistus ladanifer	No_Apis_visit_rate:Year2018	6.4748	4.864500e+00	1.3310	0.1832
	No_Apis_visit_rate:Year2019	7.4858	4.904100e+00	1.5264	0.1269
	(Intercept)	1.9101	5.654000e-01	3.3782	0.0007
	No_Apis_visit_rate	0.8315	1.067600e+00	0.7788	0.4361
	Year2016	-0.7991	1.902600e+00	-0.4200	0.6745
	Year2017	19.2238	1.255259e+04	0.0015	0.9988
	Year2018	21.2179	2.815871e+04	0.0008	0.9994
	Year2019	20.0236	1.605482e+04	0.0012	0.9990
Cistus libanotis	No_Apis_visit_rate:Year2016	10.8162	1.271890e+01	0.8504	0.3951
	No_Apis_visit_rate:Year2017	-1.4740	7.542701e+03	-0.0002	0.9998
	No_Apis_visit_rate:Year2018	-0.9719	2.057483e+04	0.0000	1.0000
	No_Apis_visit_rate:Year2019	-1.3046	4.306854e+04	0.0000	1.0000
	(Intercept)	25.3866	9.587073e+04	0.0003	0.9998
	No_Apis_visit_rate	4.2720	6.649067e+05	0.0000	1.0000
	Year2016	4755.7486	2.739725e+07	0.0002	0.9999
	Year2018	16887.8111	3.663215e+07	0.0005	0.9996
Cistus monspeliensis	Year2019	-22.3009	9.587073e+04	-0.0002	0.9998
	No_Apis_visit_rate:Year2016	-2615.9442	9.143440e+07	0.0000	1.0000
	No_Apis_visit_rate:Year2018	-13253.5148	8.318653e+07	-0.0002	0.9999
	No_Apis_visit_rate:Year2019	-2.5544	6.649067e+05	0.0000	1.0000
	(Intercept)	0.6868	1.545700e+00	0.4443	0.6568
	No_Apis_visit_rate	6.7590	5.498500e+00	1.2292	0.2190
	Year2016	19.5462	2.948741e+04	0.0007	0.9995
	Year2017	-0.5502	2.216800e+00	-0.2482	0.8040
Cistus salviifolius	Year2018	20.8407	4.886824e+04	0.0004	0.9997
	Year2019	-0.1140	1.354100e+00	-0.0842	0.9329
	No_Apis_visit_rate:Year2018	0.1190	6.288305e+05	0.0000	1.0000
	(Intercept)	2.4005	3.932000e-01	6.1056	0.0000
	No_Apis_visit_rate	-0.5203	4.389000e-01	-1.1855	0.2358
	Year2016	20.7744	2.940989e+04	0.0007	0.9994
	Year2017	-1.5908	3.341800e+00	-0.4760	0.6341
	Year2018	21.6929	2.589077e+04	0.0008	0.9993
	Year2019	21.8764	2.693013e+04	0.0008	0.9994
	No_Apis_visit_rate:Year2016	0.4559	4.120978e+04	0.0000	1.0000

Halimium calycinum	No_Apis_visit_rate:Year2017	28.2299	3.287890e+01	0.8586	0.3906
	No_Apis_visit_rate:Year2018	-0.2809	6.742803e+04	0.0000	1.0000
	No_Apis_visit_rate:Year2019	-0.5421	4.117499e+04	0.0000	1.0000
	(Intercept)	0.4787	3.734000e-01	1.2820	0.1999
	No_Apis_visit_rate	-0.0703	1.249100e+00	-0.0563	0.9551
	Year2016	114.1360	2.754214e+08	0.0000	1.0000
	Year2017	49.6555	4.292324e+07	0.0000	1.0000
	Year2019	100.6361	1.394970e+07	0.0000	1.0000
	No_Apis_visit_rate:Year2016	-24.6663	3.659280e+09	0.0000	1.0000
Halimium halimifolium	No_Apis_visit_rate:Year2017	-66.7796	2.638082e+08	0.0000	1.0000
	No_Apis_visit_rate:Year2019	-8.3475	6.472628e+07	0.0000	1.0000
	(Intercept)	1.2220	7.223000e-01	1.6918	0.0907
	No_Apis_visit_rate	1.9577	5.309300e+00	0.3687	0.7123
	Year2016	0.5594	7.699000e-01	0.7266	0.4675
	Year2017	20.8460	1.094712e+03	0.0190	0.9848
	Year2018	0.0551	7.575000e-01	0.0727	0.9420
	Year2019	-0.2506	1.288000e+00	-0.1946	0.8457
	No_Apis_visit_rate:Year2016	-1.8447	5.848800e+00	-0.3154	0.7525
Lavandula pedunculata	No_Apis_visit_rate:Year2017	-1.6767	7.740857e+02	-0.0022	0.9983
	No_Apis_visit_rate:Year2018	-2.0330	5.346400e+00	-0.3802	0.7038
	(Intercept)	1.2166	1.701000e-01	7.1512	0.0000
	No_Apis_visit_rate	5.1926	2.658400e+00	1.9533	0.0508
	Year2016	0.4712	2.186000e-01	2.1558	0.0311
	Year2017	-0.1701	3.345000e-01	-0.5084	0.6112
	Year2018	0.4654	1.562000e-01	2.9798	0.0029
	Year2019	0.5554	1.360000e-01	4.0821	0.0000
	No_Apis_visit_rate:Year2016	-2.2240	3.446100e+00	-0.6454	0.5187
Lavandula stoechas	No_Apis_visit_rate:Year2017	-3.2144	2.843900e+00	-1.1303	0.2584
	No_Apis_visit_rate:Year2018	-10.2149	3.108700e+00	-3.2859	0.0010
	No_Apis_visit_rate:Year2019	-6.1830	2.701900e+00	-2.2884	0.0221
	(Intercept)	1.3602	1.270000e-01	10.7061	0.0000
	No_Apis_visit_rate	-0.4336	9.456000e-01	-0.4585	0.6466
	Year2016	1.6045	2.965000e-01	5.4109	0.0000
	Year2017	-0.1341	3.438000e-01	-0.3900	0.6965
	Year2018	0.6785	3.481000e-01	1.9493	0.0513
	Year2019	2.2529	5.875000e-01	3.8345	0.0001
Salvia rosmarinus	No_Apis_visit_rate:Year2016	-7.6054	4.568900e+00	-1.6646	0.0960
	No_Apis_visit_rate:Year2017	-28.7892	1.261610e+01	-2.2819	0.0225
	No_Apis_visit_rate:Year2018	221.0291	1.022674e+02	2.1613	0.0307
	No_Apis_visit_rate:Year2019	-6.2526	1.196220e+01	-0.5227	0.6012
	(Intercept)	2.2131	4.078000e-01	5.4268	0.0000
	No_Apis_visit_rate	-2.6545	6.592000e-01	-4.0266	0.0001
	Year2016	33.6454	5.096593e+04	0.0007	0.9995
	Year2017	-26.1125	2.281955e+04	-0.0011	0.9991
	No_Apis_visit_rate:Year2016	-22528.4658	3.202359e+07	-0.0007	0.9994
Teucrium fruticans	No_Apis_visit_rate:Year2017	25.7754	6.453480e+06	0.0000	1.0000
	(Intercept)	3.4096	4.757000e-01	7.1674	0.0000
	No_Apis_visit_rate	-0.4345	2.383200e+00	-0.1823	0.8553
	Year2017	-2.0538	7.797000e-01	-2.6342	0.0084
	Year2018	-3.1044	1.085500e+00	-2.8598	0.0042
	Year2019	-1.2307	2.010200e+00	-0.6122	0.5404
	No_Apis_visit_rate:Year2017	-0.4673	2.674700e+00	-0.1747	0.8613
	No_Apis_visit_rate:Year2018	1.7026	2.761500e+00	0.6165	0.5375





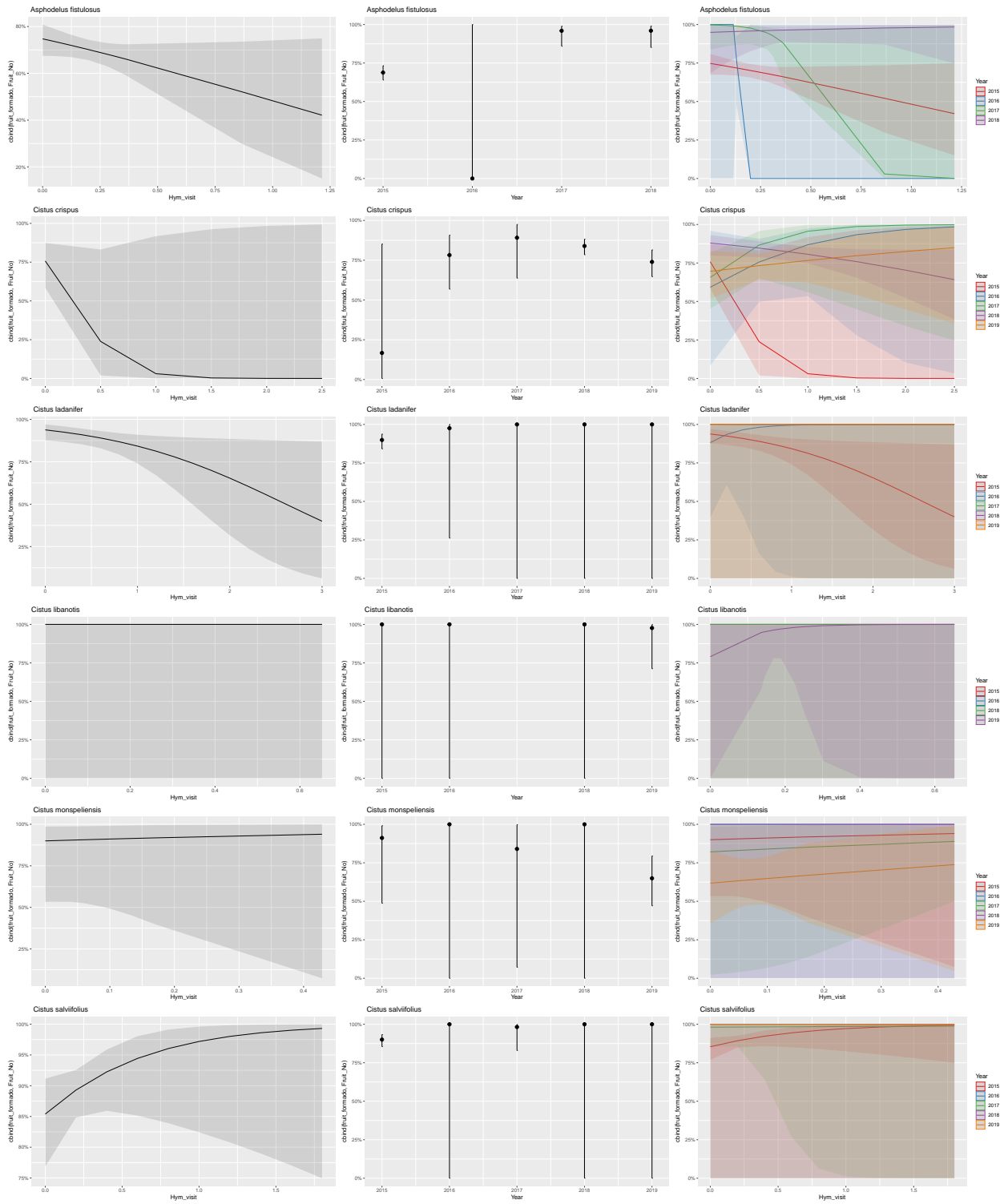
visitation rate of hymenoptera

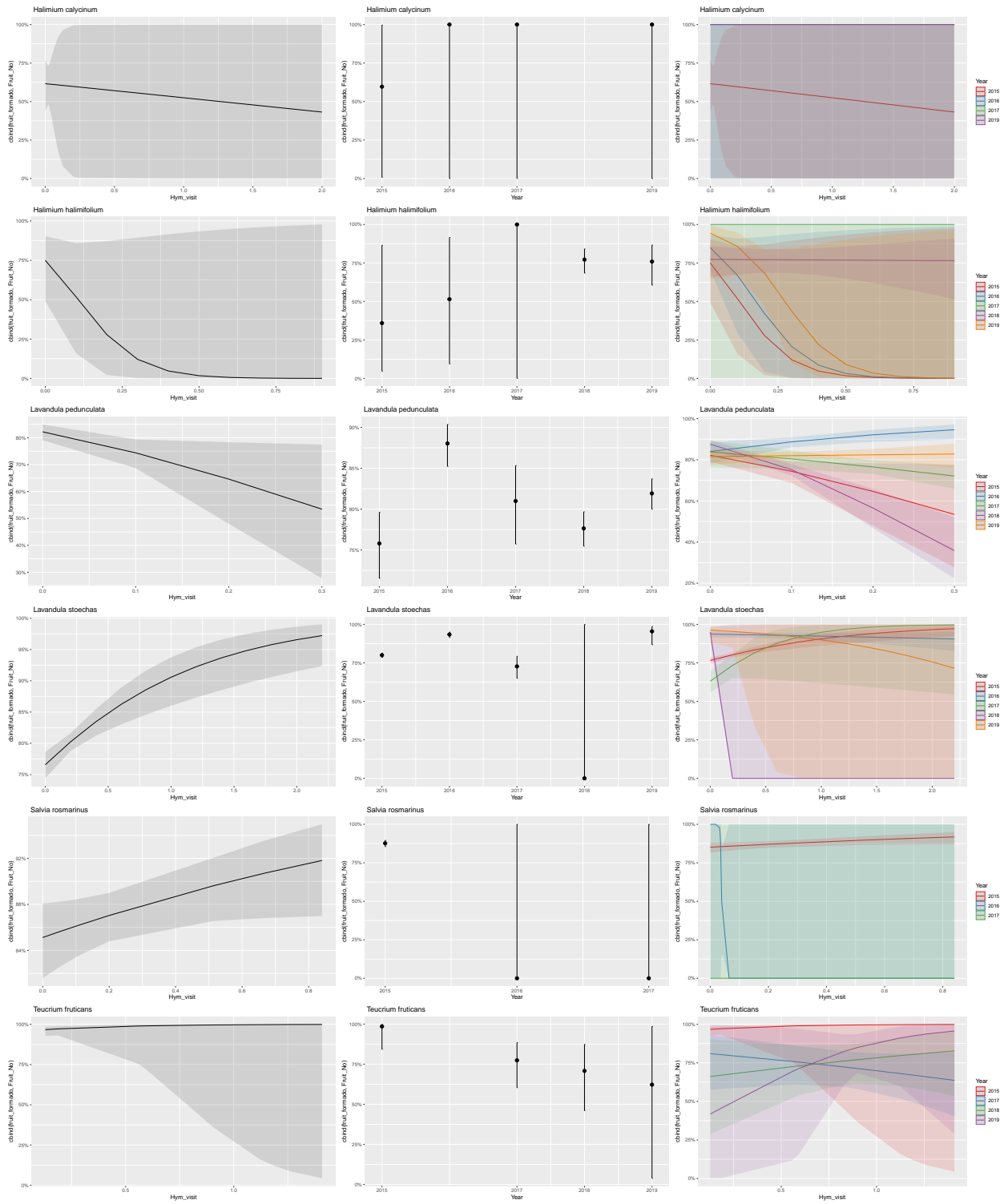
A- GLM binomial (cbind(fruit_formado, Fruit_No))

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	1.0850	0.1815	5.9791	0.0000
	Hym_visit	-1.1554	0.7092	-1.6293	0.1033
	Year2016	110.7922	6587.5757	0.0168	0.9866
	Year2017	4.8441	2.1964	2.2054	0.0274
	Year2018	1.8413	1.1166	1.6490	0.0991
	Hym_visit:Year2016	-847.3395	50504.7499	-0.0168	0.9866
	Hym_visit:Year2017	-9.7172	6.9896	-1.3902	0.1645
	Hym_visit:Year2018	2.1410	2.0753	1.0317	0.3022
Cistus crispus	(Intercept)	1.1394	0.4062	2.8051	0.0050
	Hym_visit	-4.5980	3.2147	-1.4303	0.1526
	Year2016	-0.7642	1.4655	-0.5214	0.6021
	Year2017	-0.4917	0.5892	-0.8346	0.4040
	Year2018	0.8492	0.5145	1.6504	0.0989
	Year2019	-0.3119	0.5593	-0.5576	0.5771
	Hym_visit:Year2016	6.1107	3.8132	1.6025	0.1090
	Hym_visit:Year2017	7.0378	3.6467	1.9299	0.0536
Cistus ladanifer	Hym_visit:Year2018	4.0354	3.2298	1.2494	0.2115
	Hym_visit:Year2019	4.9585	3.2685	1.5171	0.1293
	(Intercept)	2.7171	0.3895	6.9752	0.0000
	Hym_visit	-1.0415	0.4788	-2.1752	0.0296
	Year2016	-0.7064	1.3055	-0.5411	0.5884
	Year2017	18.3775	9078.5998	0.0020	0.9984
	Year2018	18.5858	7353.7384	0.0025	0.9980
	Year2019	18.0976	6248.2752	0.0029	0.9977
Cistus libanotis	Hym_visit:Year2016	4.3125	5.5844	0.7722	0.4400
	Hym_visit:Year2017	1.2656	15849.4191	0.0001	0.9999
	Hym_visit:Year2018	0.6234	12803.7441	0.0000	1.0000
	Hym_visit:Year2019	0.8898	7336.7793	0.0001	0.9999
	(Intercept)	23.7976	19468.5371	0.0012	0.9990
	Hym_visit	-1.1892	55795.8345	0.0000	1.0000
	Year2016	-1.1866	24493.1099	0.0000	1.0000
	Year2018	-1.4311	27972.2287	-0.0001	1.0000
Cistus monspeliensis	Year2019	-22.4718	19468.5376	-0.0012	0.9991
	Hym_visit:Year2016	NA	NA	NA	NA
	Hym_visit:Year2018	1.3323	75616.9507	0.0000	1.0000
	Hym_visit:Year2019	12.6119	55795.8401	0.0002	0.9998
	(Intercept)	2.1972	1.0541	2.0845	0.0371
	Hym_visit	1.2965	5.7926	0.2238	0.8229
	Year2016	17.9952	8018.5612	0.0022	0.9982
	Year2017	-0.6734	2.8981	-0.2324	0.8163
Cistus salviifolius	Year2018	18.3594	7490.0318	0.0025	0.9980
	Year2019	-1.7163	1.1894	-1.4430	0.1490
	Hym_visit:Year2016	NA	NA	NA	NA
	Hym_visit:Year2017	NA	NA	NA	NA
	Hym_visit:Year2018	3.6939	107920.4232	0.0000	1.0000
	Hym_visit:Year2019	NA	NA	NA	NA
	(Intercept)	1.7658	0.2886	6.1192	0.0000
	Hym_visit	1.7776	1.2059	1.4740	0.1405
	Year2016	19.1538	5729.9159	0.0033	0.9973

Halimium calycinum	Year2017	2.1776	1.1439	1.9036	0.0570
	Year2018	19.5082	5460.5960	0.0036	0.9971
	Year2019	19.5499	4543.8511	0.0043	0.9966
	Hym_visit:Year2016	-1.6477	6442.9112	-0.0003	0.9998
	Hym_visit:Year2017	-1.5127	4.9104	-0.3081	0.7580
	Hym_visit:Year2018	-1.4050	31110.1815	0.0000	1.0000
	Hym_visit:Year2019	-1.9343	5880.1785	-0.0003	0.9997
	(Intercept)	0.4717	0.3794	1.2435	0.2137
	Hym_visit	-0.3737	13.2998	-0.0281	0.9776
	Year2016	22.4676	29041.8202	0.0008	0.9994
	Year2017	23.1393	24503.8166	0.0009	0.9992
	Year2019	22.7528	13963.9298	0.0016	0.9987
	Hym_visit:Year2016	NA	NA	NA	NA
	Hym_visit:Year2017	0.5302	20793.2496	0.0000	1.0000
Halimium halimifolium	Hym_visit:Year2019	0.7941	41651.5185	0.0000	1.0000
	(Intercept)	1.0986	0.5774	1.9029	0.0571
	Hym_visit	-10.2583	6.7147	-1.5277	0.1266
	Year2016	0.6360	0.7276	0.8741	0.3821
	Year2017	18.8647	3759.5969	0.0050	0.9960
	Year2018	0.1294	0.6472	0.2000	0.8415
	Year2019	1.7263	1.2813	1.3473	0.1779
	Hym_visit:Year2016	NA	NA	NA	NA
	Hym_visit:Year2017	10.1950	11889.5948	0.0009	0.9993
	Hym_visit:Year2018	10.2044	6.7621	1.5091	0.1313
	Hym_visit:Year2019	NA	NA	NA	NA
	(Intercept)	1.5306	0.1022	14.9702	0.0000
	Hym_visit	-4.6407	2.1313	-2.1774	0.0295
	Year2016	0.1302	0.2225	0.5851	0.5585
Lavandula pedunculata	Year2017	0.1125	0.2631	0.4277	0.6689
	Year2018	0.4222	0.1443	2.9267	0.0034
	Year2019	-0.0428	0.1636	-0.2617	0.7936
	Hym_visit:Year2016	8.6364	2.6614	3.2451	0.0012
	Hym_visit:Year2017	2.3282	2.4110	0.9656	0.3342
	Hym_visit:Year2018	-3.8099	2.5509	-1.4935	0.1353
	Hym_visit:Year2019	4.9195	2.3701	2.0757	0.0379
	(Intercept)	1.1844	0.0600	19.7276	0.0000
	Hym_visit	1.0779	0.2645	4.0746	0.0000
	Year2016	1.5095	0.1741	8.6703	0.0000
	Year2017	-0.6486	0.1682	-3.8564	0.0001
	Year2018	1.7730	0.5111	3.4690	0.0005
	Year2019	2.0594	0.6382	3.2271	0.0013
	Hym_visit:Year2016	-1.2796	0.3220	-3.9737	0.0001
Lavandula stoechas	Hym_visit:Year2017	1.3014	1.3691	0.9505	0.3418
	Hym_visit:Year2018	-72.7254	61.7690	-1.1774	0.2390
	Hym_visit:Year2019	-2.1337	5.8480	-0.3649	0.7152
	(Intercept)	1.7439	0.1305	13.3624	0.0000
	Hym_visit	0.8014	0.4013	1.9969	0.0458
	Year2016	19.0592	4685.2199	0.0041	0.9968
	Year2017	-22.3097	2993.7198	-0.0075	0.9941
	Hym_visit:Year2016	-530.7187	119346.4828	-0.0044	0.9965
	Hym_visit:Year2017	-0.6490	5004.0856	-0.0001	0.9999
	(Intercept)	3.0207	0.6571	4.5970	0.0000
	Hym_visit	2.6685	3.9215	0.6805	0.4962
	Year2017	-1.4881	0.9314	-1.5978	0.1101
	Year2018				
	Year2019				
Salvia rosmarinus	Hym_visit:Year2016				
	Hym_visit:Year2017				
	Hym_visit:Year2018				
	Hym_visit:Year2019				
	(Intercept)				
	Hym_visit				
	Year2016				
	Year2017				
	Year2018				
	Year2019				
	Hym_visit:Year2016				
	Hym_visit:Year2017				
	Hym_visit:Year2018				
	Hym_visit:Year2019				
Teucrium fruticans	(Intercept)				
	Hym_visit				
	Year2016				
	Year2017				

Year2018	-2.4427	1.1340	-2.1540	0.0312
Year2019	-3.6926	3.1052	-1.1892	0.2344
Hym_visit:Year2017	-3.3591	3.9816	-0.8437	0.3989
Hym_visit:Year2018	-1.9667	4.0596	-0.4845	0.6281
Hym_visit:Year2019	NA	NA	NA	NA

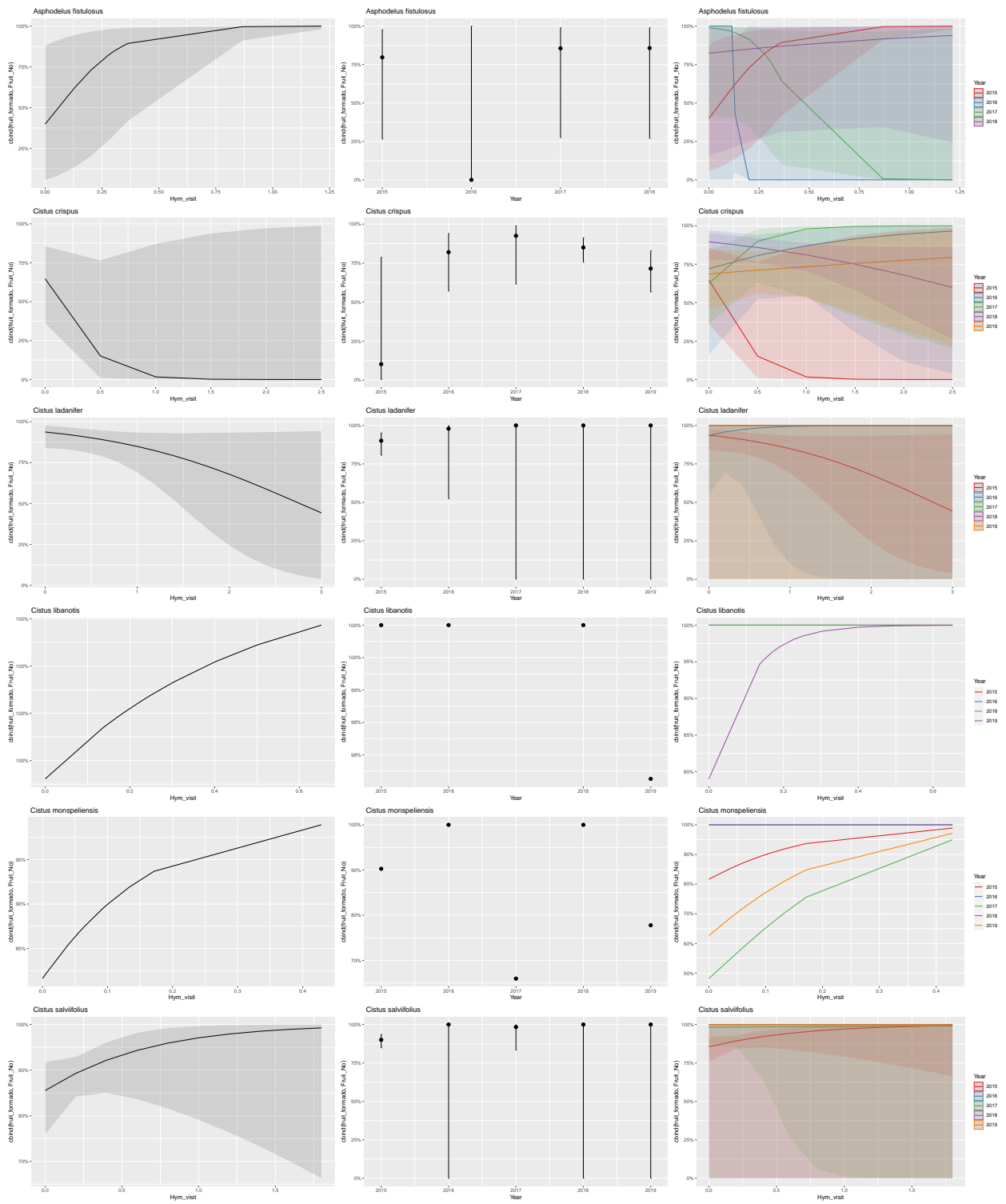


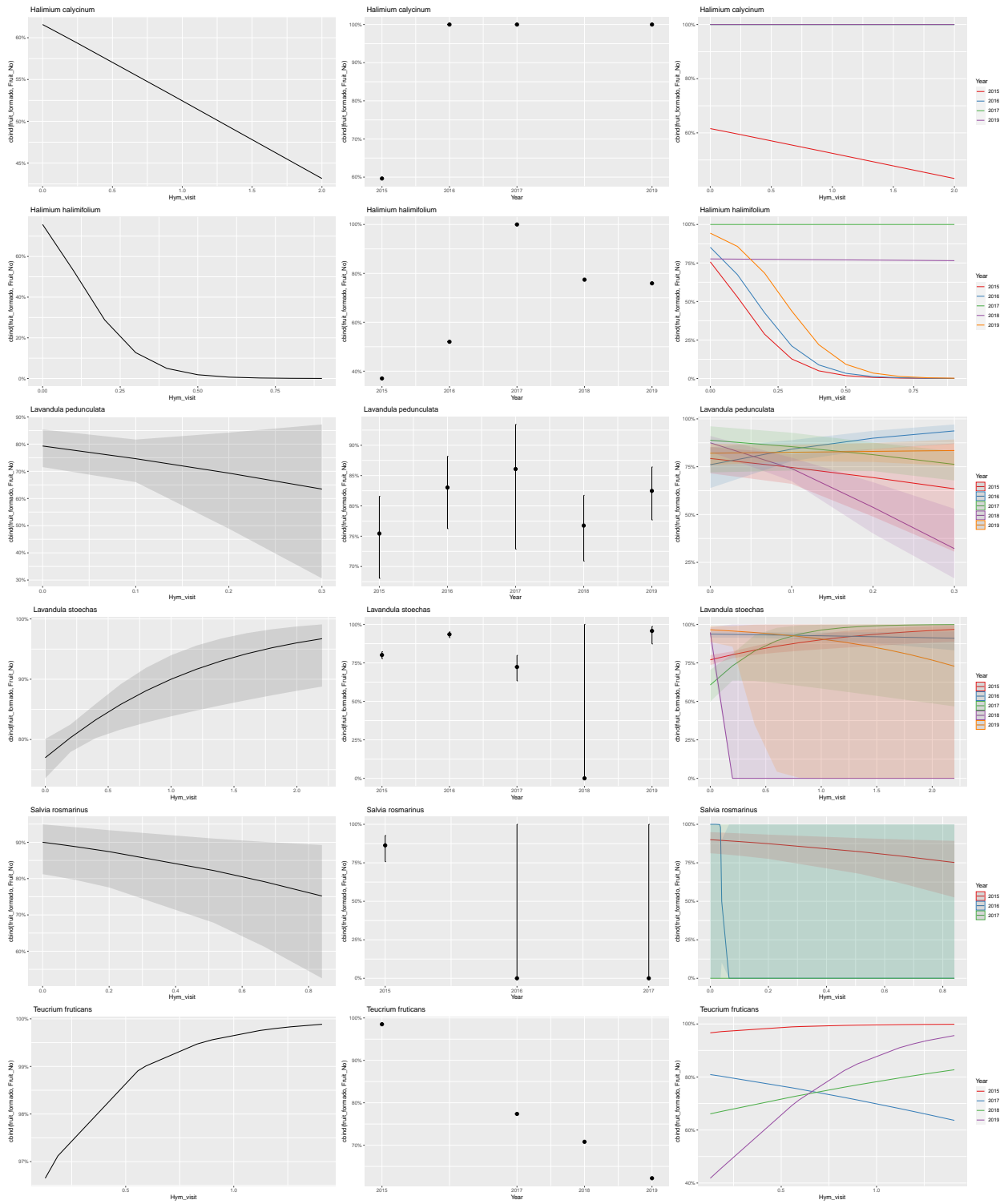


B- GLMM binomial (ramdon= Site_ID)

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	-0.4092	1.224900e+00	-0.3341	0.7383
	Hym_visit	6.9790	1.638900e+00	4.2583	0.0000
	Year2016	137.7718	8.009235e+04	0.0017	0.9986
	Year2017	4.9568	2.210200e+00	2.2427	0.0249
	Year2018	1.9492	1.133800e+00	1.7191	0.0856
	Hym_visit:Year2016	-1062.2993	6.140413e+05	-0.0017	0.9986
	Hym_visit:Year2017	-17.8729	7.161000e+00	-2.4959	0.0126
	Hym_visit:Year2018	-5.9923	2.551900e+00	-2.3482	0.0189
Cistus crispus	(Intercept)	0.6053	5.982000e-01	1.0118	0.3116
	Hym_visit	-4.6560	3.232200e+00	-1.4405	0.1497
	Year2016	0.3436	1.435200e+00	0.2394	0.8108
	Year2017	-0.0917	7.708000e-01	-0.1190	0.9053
	Year2018	1.5512	7.323000e-01	2.1184	0.0341
	Year2019	0.1813	7.012000e-01	0.2586	0.7959
	Hym_visit:Year2016	5.6094	3.693000e+00	1.5189	0.1288
	Hym_visit:Year2017	8.0146	3.936800e+00	2.0358	0.0418
Cistus ladanifer	Hym_visit:Year2018	3.9537	3.257300e+00	1.2138	0.2248
	Hym_visit:Year2019	4.8824	3.298900e+00	1.4800	0.1389
	(Intercept)	2.7036	5.356000e-01	5.0476	0.0000
	Hym_visit	-0.9778	6.186000e-01	-1.5807	0.1139
	Year2016	-0.0442	1.290900e+00	-0.0342	0.9727
	Year2017	19.2524	1.952695e+04	0.0010	0.9992
	Year2018	22.1524	6.403377e+04	0.0003	0.9997
	Year2019	19.7802	1.770355e+04	0.0011	0.9991
Cistus libanotis	Hym_visit:Year2016	3.3073	4.045800e+00	0.8175	0.4137
	Hym_visit:Year2017	-0.2728	2.898658e+04	0.0000	1.0000
	Hym_visit:Year2018	-0.5253	9.195449e+04	0.0000	1.0000
	Hym_visit:Year2019	-0.1692	1.369024e+04	0.0000	1.0000
	(Intercept)	24.5426	4.658479e+04	0.0005	0.9996
	Hym_visit	2.0731	2.353802e+05	0.0000	1.0000
	Year2016	2085.7506	2.023414e+07	0.0001	0.9999
	Year2018	246.7566	3.036699e+07	0.0000	1.0000
Cistus monspeliensis	Year2019	-23.2168	4.658479e+04	-0.0005	0.9996
	Hym_visit:Year2018	-359.0032	7.639305e+07	0.0000	1.0000
	Hym_visit:Year2019	9.3497	2.353802e+05	0.0000	1.0000
	(Intercept)	1.4909	1.320000e+00	1.1294	0.2587
	Hym_visit	7.0321	6.628300e+00	1.0609	0.2887
	Year2016	20.4110	6.634871e+04	0.0003	0.9998
	Year2017	-1.5652	3.047500e+00	-0.5136	0.6075
	Year2018	22.0098	7.870758e+04	0.0003	0.9998
Cistus salviifolius	Year2019	-0.9748	1.306100e+00	-0.7463	0.4555
	Hym_visit:Year2018	-0.9157	1.155806e+06	0.0000	1.0000
	(Intercept)	1.7767	3.210000e-01	5.5353	0.0000
	Hym_visit	1.7243	1.311800e+00	1.3145	0.1887
	Year2016	21.3363	2.667082e+04	0.0008	0.9994
	Year2017	2.2163	1.164700e+00	1.9030	0.0570
	Year2018	22.2472	3.445924e+04	0.0006	0.9995
	Year2019	22.0654	2.420073e+04	0.0009	0.9993
	Hym_visit:Year2016	-2.4413	2.265134e+04	-0.0001	0.9999
	Hym_visit:Year2017	-1.3530	5.087000e+00	-0.2660	0.7903

Halimium calycinum	Hym_visit:Year2018	-1.9860	1.905930e+05	0.0000	1.0000
	Hym_visit:Year2019	-2.7186	1.973809e+04	-0.0001	0.9999
	(Intercept)	0.4717	3.794000e-01	1.2435	0.2137
	Hym_visit	-0.3737	1.329980e+01	-0.0281	0.9776
	Year2016	42.9554	3.355443e+07	0.0000	1.0000
	Year2017	35.7312	2.023408e+07	0.0000	1.0000
Halimium halimifolium	Year2019	39.9535	1.365524e+07	0.0000	1.0000
	Hym_visit:Year2017	3.2135	1.559141e+07	0.0000	1.0000
	Hym_visit:Year2019	-0.8153	3.556870e+07	0.0000	1.0000
	(Intercept)	1.1376	5.882000e-01	1.9339	0.0531
	Hym_visit	-10.2147	6.716800e+00	-1.5208	0.1283
	Year2016	0.6119	7.308000e-01	0.8373	0.4024
Lavandula pedunculata	Year2017	20.9771	1.799591e+04	0.0012	0.9991
	Year2018	0.1069	6.570000e-01	0.1626	0.8708
	Year2019	1.6799	1.286000e+00	1.3063	0.1914
	Hym_visit:Year2017	10.6134	6.009645e+04	0.0002	0.9999
	Hym_visit:Year2018	10.1443	6.761900e+00	1.5002	0.1336
	(Intercept)	1.3432	2.149000e-01	6.2511	0.0000
Lavandula stoechas	Hym_visit	-2.6377	2.728600e+00	-0.9667	0.3337
	Year2016	-0.1878	3.136000e-01	-0.5990	0.5492
	Year2017	0.7331	6.344000e-01	1.1557	0.2478
	Year2018	0.6033	2.235000e-01	2.6991	0.0070
	Year2019	0.1783	2.040000e-01	0.8743	0.3819
	Hym_visit:Year2016	7.7978	3.302900e+00	2.3609	0.0182
Salvia rosmarinus	Hym_visit:Year2017	-0.3980	3.374100e+00	-0.1179	0.9061
	Hym_visit:Year2018	-6.3365	3.167000e+00	-2.0008	0.0454
	Hym_visit:Year2019	2.9633	2.839600e+00	1.0436	0.2967
	(Intercept)	1.2072	9.400000e-02	12.8403	0.0000
	Hym_visit	0.9900	3.302000e-01	2.9978	0.0027
	Year2016	1.4970	1.816000e-01	8.2436	0.0000
Teucrium fruticans	Year2017	-0.7752	2.509000e-01	-3.0898	0.0020
	Year2018	1.6903	5.335000e-01	3.1685	0.0015
	Year2019	2.1016	6.504000e-01	3.2310	0.0012
	Hym_visit:Year2016	-1.1686	3.808000e-01	-3.0689	0.0021
	Hym_visit:Year2017	1.8443	1.695300e+00	1.0879	0.2766
	Hym_visit:Year2018	-69.7320	6.246020e+01	-1.1164	0.2642
Teucrium fruticans	Hym_visit:Year2019	-2.0460	5.848800e+00	-0.3498	0.7265
	(Intercept)	2.1987	3.750000e-01	5.8627	0.0000
	Hym_visit	-1.2967	5.780000e-01	-2.2436	0.0249
	Year2016	34.7669	7.150606e+06	0.0000	1.0000
	Year2017	-3335.9624	1.143595e+07	-0.0003	0.9998
	Hym_visit:Year2016	-940.3260	1.821472e+08	0.0000	1.0000
Teucrium fruticans	Hym_visit:Year2017	2222.5032	1.965474e+07	0.0001	0.9999
	(Intercept)	3.0207	6.571000e-01	4.5972	0.0000
	Hym_visit	2.6685	3.921300e+00	0.6805	0.4962
	Year2017	-1.4881	9.314000e-01	-1.5978	0.1101
	Year2018	-2.4427	1.134000e+00	-2.1541	0.0312
	Year2019	-3.6926	3.105100e+00	-1.1892	0.2344
Teucrium fruticans	Hym_visit:Year2017	-3.3591	3.981400e+00	-0.8437	0.3988
	Hym_visit:Year2018	-1.9667	4.059400e+00	-0.4845	0.6281





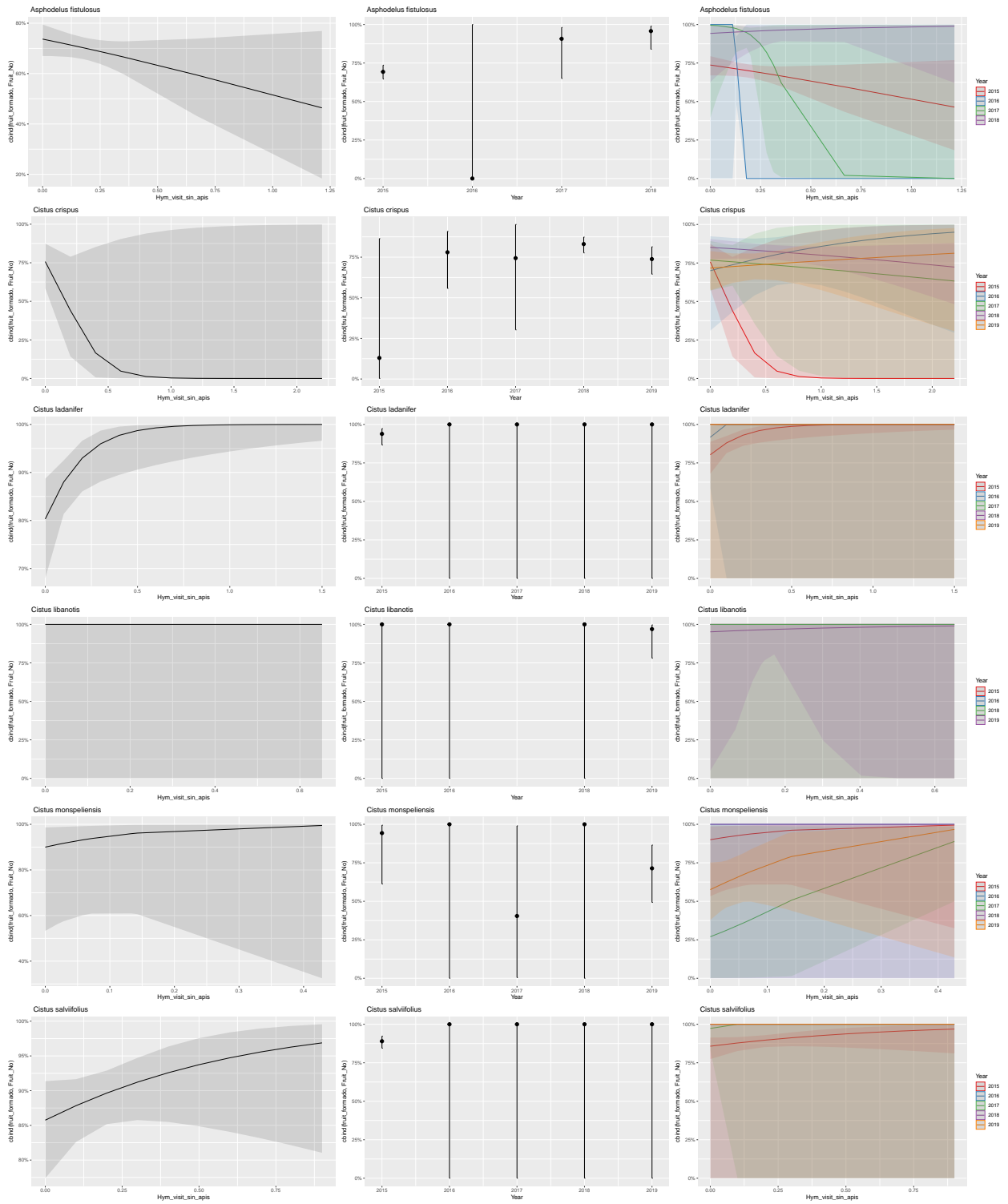
visitation rate of hymenoptera without *A. mellifera*

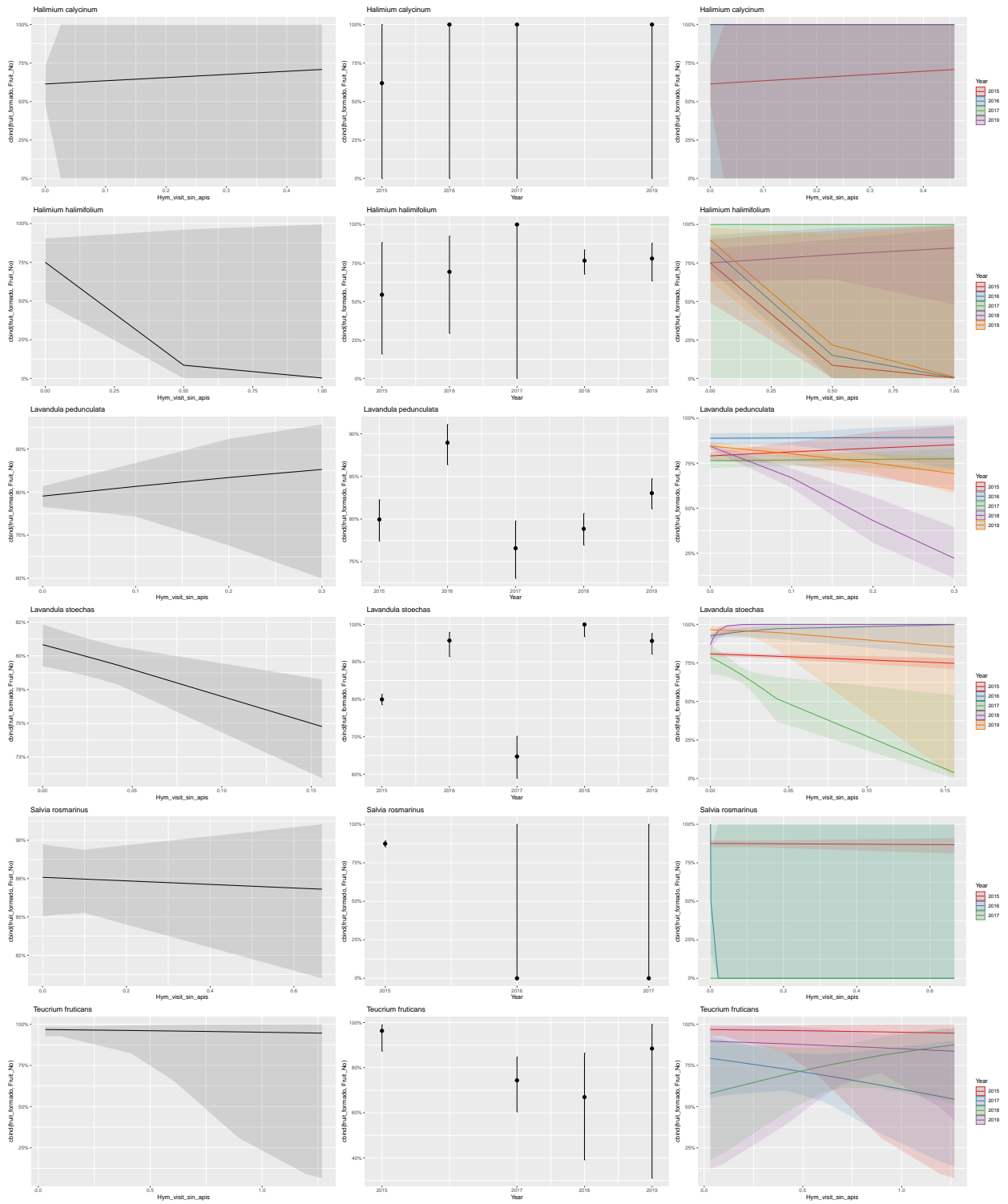
A- GLM binomial (cbind(fruit_formado, Fruit_No))

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	1.0307	0.1651	6.2447	0.0000
	Hym_visit_sin_apis	-0.9676	0.6644	-1.4562	0.1453
	Year2016	110.8465	6587.5757	0.0168	0.9866
	Year2017	4.3827	2.9876	1.4669	0.1424
	Year2018	1.7632	1.1747	1.5009	0.1334
	Hym_visit_sin_apis:Year2016	-847.5273	50504.7499	-0.0168	0.9866
	Hym_visit_sin_apis:Year2017	-12.9729	15.7133	-0.8256	0.4090
	Hym_visit_sin_apis:Year2018	2.3802	2.5316	0.9402	0.3471
Cistus crispus	(Intercept)	1.1394	0.4062	2.8051	0.0050
	Hym_visit_sin_apis	-6.8970	4.8220	-1.4303	0.1526
	Year2016	-0.2936	0.9319	-0.3151	0.7527
	Year2017	0.0605	0.6190	0.0977	0.9222
	Year2018	0.6077	0.4829	1.2583	0.2083
	Year2019	-0.2106	0.5205	-0.4046	0.6858
	Hym_visit_sin_apis:Year2016	7.8492	4.9590	1.5828	0.1135
	Hym_visit_sin_apis:Year2017	6.5986	5.6345	1.1711	0.2416
	Hym_visit_sin_apis:Year2018	6.5398	4.8326	1.3533	0.1760
	Hym_visit_sin_apis:Year2019	7.1435	4.8630	1.4690	0.1418
Cistus ladanifer	(Intercept)	1.4060	0.3342	4.2076	0.0000
	Hym_visit_sin_apis	5.8827	2.4721	2.3796	0.0173
	Year2016	0.9919	1.0966	0.9045	0.3657
	Year2017	21.9608	20265.8687	0.0011	0.9991
	Year2018	21.7382	16343.3675	0.0013	0.9989
	Year2019	21.3331	14366.2455	0.0015	0.9988
	Hym_visit_sin_apis:Year2016	169.5991	33670.0831	0.0050	0.9960
	Hym_visit_sin_apis:Year2017	-6.8570	75893.6490	-0.0001	0.9999
	Hym_visit_sin_apis:Year2018	-6.0759	73646.8668	-0.0001	0.9999
	Hym_visit_sin_apis:Year2019	-5.9571	41846.7409	-0.0001	0.9999
Cistus libanotis	(Intercept)	23.7976	19468.5366	0.0012	0.9990
	Hym_visit_sin_apis	-1.1892	55795.8339	0.0000	1.0000
	Year2016	-1.1866	24493.1097	0.0000	1.0000
	Year2018	-1.4767	25530.6611	-0.0001	1.0000
	Year2019	-20.8191	19468.5368	-0.0011	0.9991
	Hym_visit_sin_apis:Year2016	NA	NA	NA	NA
	Hym_visit_sin_apis:Year2018	1.4926	70971.8375	0.0000	1.0000
	Hym_visit_sin_apis:Year2019	3.6273	55795.8365	0.0001	0.9999
Cistus monspeliensis	(Intercept)	2.1972	1.0541	2.0845	0.0371
	Hym_visit_sin_apis	7.1751	6.7112	1.0691	0.2850
	Year2016	18.2114	13220.3725	0.0014	0.9989
	Year2017	-3.1928	3.2417	-0.9849	0.3247
	Year2018	19.3385	12717.3530	0.0015	0.9988
	Year2019	-1.8912	1.1305	-1.6730	0.0943
	Hym_visit_sin_apis:Year2016	NA	NA	NA	NA
	Hym_visit_sin_apis:Year2017	NA	NA	NA	NA
	Hym_visit_sin_apis:Year2018	-0.3795	235617.7351	0.0000	1.0000
	Hym_visit_sin_apis:Year2019	NA	NA	NA	NA
Cistus salviifolius	(Intercept)	1.7946	0.2879	6.2328	0.0000
	Hym_visit_sin_apis	1.8233	1.3307	1.3701	0.1706
	Year2016	20.1688	9284.3176	0.0022	0.9983

Halimium calycinum	Year2017	1.7889	1.0539	1.6974	0.0896
	Year2018	20.5435	6931.4241	0.0030	0.9976
	Year2019	20.5363	7288.8266	0.0028	0.9978
	Hym_visit_sin_apis:Year2016	-1.6995	20885.1473	-0.0001	0.9999
	Hym_visit_sin_apis:Year2017	446.3912	135451.4449	0.0033	0.9974
	Hym_visit_sin_apis:Year2018	-1.9596	43457.1266	0.0000	1.0000
	Hym_visit_sin_apis:Year2019	-2.4797	31492.4502	-0.0001	0.9999
	(Intercept)	0.4643	0.2721	1.7065	0.0879
	Hym_visit_sin_apis	0.9229	79764.7058	0.0000	1.0000
	Year2016	22.4750	29041.8202	0.0008	0.9994
	Year2017	23.2558	19689.5534	0.0012	0.9991
	Year2019	22.7899	12290.4377	0.0019	0.9985
	Hym_visit_sin_apis:Year2016	NA	NA	NA	NA
	Hym_visit_sin_apis:Year2017	NA	NA	NA	NA
	Hym_visit_sin_apis:Year2019	NA	NA	NA	NA
Halimium halimifolium	(Intercept)	1.0986	0.5774	1.9029	0.0571
	Hym_visit_sin_apis	-6.9386	5.5688	-1.2460	0.2128
	Year2016	0.6360	0.7276	0.8741	0.3821
	Year2017	18.8106	3191.7237	0.0059	0.9953
	Year2018	0.0028	0.6472	0.0043	0.9966
	Year2019	1.0827	1.0158	1.0659	0.2865
	Hym_visit_sin_apis:Year2016	NA	NA	NA	NA
	Hym_visit_sin_apis:Year2017	7.1720	11052.4110	0.0006	0.9995
	Hym_visit_sin_apis:Year2018	7.5503	5.6732	1.3309	0.1832
	Hym_visit_sin_apis:Year2019	NA	NA	NA	NA
	(Intercept)	1.3292	0.0736	18.0636	0.0000
	Hym_visit_sin_apis	1.4197	2.4333	0.5835	0.5596
	Year2016	0.7509	0.1764	4.2577	0.0000
	Year2017	-0.1528	0.1303	-1.1729	0.2408
	Year2018	0.3580	0.0994	3.6023	0.0003
Lavandula pedunculata	Year2019	0.3708	0.1137	3.2617	0.0011
	Hym_visit_sin_apis:Year2016	-1.2498	3.3910	-0.3686	0.7124
	Hym_visit_sin_apis:Year2017	-1.2173	2.5390	-0.4795	0.6316
	Hym_visit_sin_apis:Year2018	-11.2431	2.8791	-3.9051	0.0001
	Hym_visit_sin_apis:Year2019	-4.3848	2.6302	-1.6671	0.0955
	(Intercept)	1.4389	0.0511	28.1336	0.0000
	Hym_visit_sin_apis	-2.2663	0.7413	-3.0570	0.0022
	Year2016	1.0820	0.1556	6.9519	0.0000
	Year2017	-0.1343	0.2845	-0.4720	0.6369
	Year2018	0.4247	0.2653	1.6007	0.1094
	Year2019	1.8742	0.5010	3.7408	0.0002
	Hym_visit_sin_apis:Year2016	26.2678	16.3065	1.6109	0.1072
	Hym_visit_sin_apis:Year2017	-26.8476	12.7400	-2.1074	0.0351
	Hym_visit_sin_apis:Year2018	252.6408	100.2699	2.5196	0.0117
	Hym_visit_sin_apis:Year2019	-7.7261	23.0144	-0.3357	0.7371
Salvia rosmarinus	(Intercept)	1.9532	0.1102	17.7259	0.0000
	Hym_visit_sin_apis	-0.1037	0.3868	-0.2680	0.7887
	Year2016	28.6748	6897.9555	0.0042	0.9967
	Year2017	-22.4470	1833.4029	-0.0122	0.9902
	Hym_visit_sin_apis:Year2016	-19244.5002	4334215.4280	-0.0044	0.9965
	Hym_visit_sin_apis:Year2017	NA	NA	NA	NA
	(Intercept)	3.4096	0.4757	7.1674	0.0000
	Hym_visit_sin_apis	-0.4345	2.3832	-0.1823	0.8553
	Year2017	-2.0387	0.7752	-2.6301	0.0085
	Year2018				
	Year2019				
	Hym_visit_sin_apis:Year2016				
	Hym_visit_sin_apis:Year2017				
	Hym_visit_sin_apis:Year2018				
	Hym_visit_sin_apis:Year2019				
Teucrium fruticans	(Intercept)	3.4096	0.4757	7.1674	0.0000
	Hym_visit_sin_apis	-0.4345	2.3832	-0.1823	0.8553
	Year2017	-2.0387	0.7752	-2.6301	0.0085

Year2018	-3.1298	1.0994	-2.8468	0.0044
Year2019	-1.2307	2.0102	-0.6122	0.5404
Hym_visit_sin_apis:Year2017	-0.5060	2.6690	-0.1896	0.8496
Hym_visit_sin_apis:Year2018	1.7467	2.7777	0.6288	0.5295
Hym_visit_sin_apis:Year2019	NA	NA	NA	NA

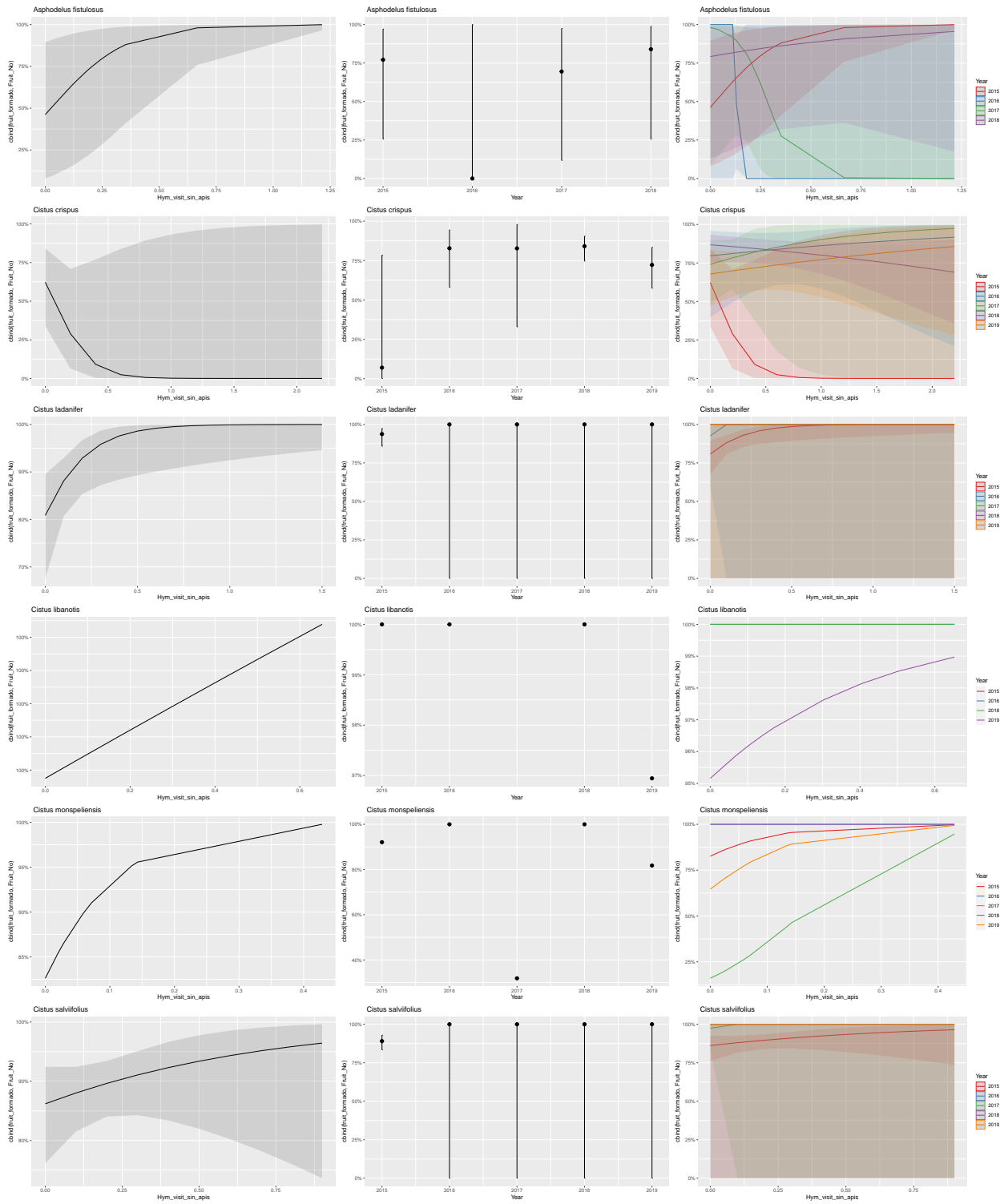


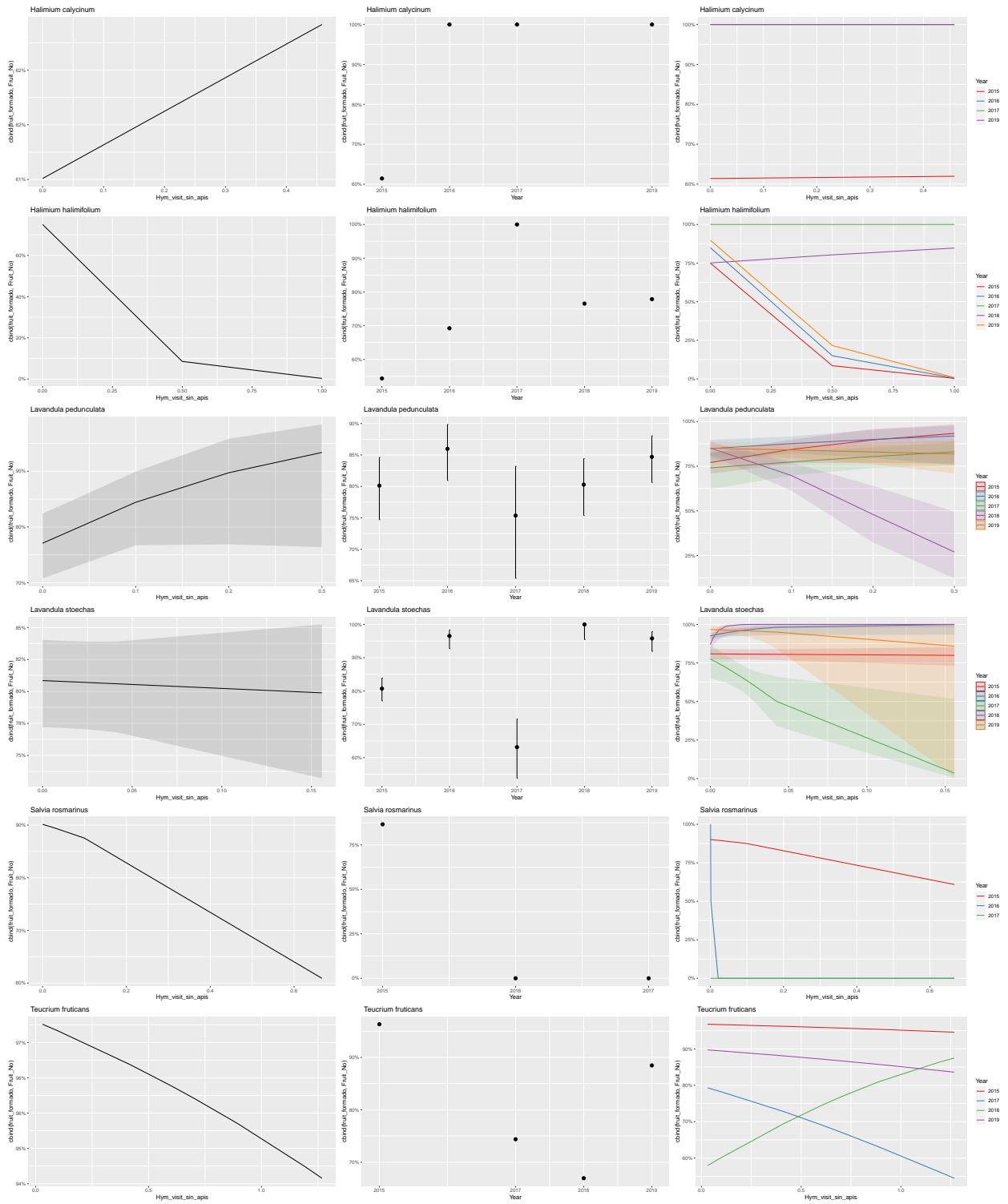


B- GLMM binomial (ramdon= Site_ID)

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	-0.1533	1.170600e+00	-0.1310	0.8958
	Hym_visit_sin_apis	6.0875	1.501200e+00	4.0550	0.0001
	Year2016	130.9556	1.288719e+02	1.0162	0.3095
	Year2017	4.1109	2.973000e+00	1.3827	0.1667
	Year2018	1.4893	1.180100e+00	1.2620	0.2069
	Hym_visit_sin_apis:Year2016	-1009.6583	9.880029e+02	-1.0219	0.3068
	Hym_visit_sin_apis:Year2017	-20.0415	1.567020e+01	-1.2790	0.2009
	Hym_visit_sin_apis:Year2018	-4.6734	2.854300e+00	-1.6374	0.1016
Cistus crispus	(Intercept)	0.4993	5.953000e-01	0.8387	0.4017
	Hym_visit_sin_apis	-6.9865	4.847700e+00	-1.4412	0.1495
	Year2016	0.8643	1.061400e+00	0.8143	0.4155
	Year2017	0.5528	7.568000e-01	0.7305	0.4651
	Year2018	1.3862	6.887000e-01	2.0128	0.0441
	Year2019	0.2479	6.554000e-01	0.3782	0.7053
	Hym_visit_sin_apis:Year2016	7.4592	4.975400e+00	1.4992	0.1338
	Hym_visit_sin_apis:Year2017	8.1524	5.916500e+00	1.3779	0.1682
	Hym_visit_sin_apis:Year2018	6.4931	4.865200e+00	1.3346	0.1820
	Hym_visit_sin_apis:Year2019	7.4602	4.905400e+00	1.5208	0.1283
	(Intercept)	1.4407	3.602000e-01	4.0001	0.0001
Cistus ladanifer	Hym_visit_sin_apis	5.6344	2.525300e+00	2.2311	0.0257
	Year2016	1.0847	1.115400e+00	0.9725	0.3308
	Year2017	24.5356	1.228068e+05	0.0002	0.9998
	Year2018	24.2529	1.013676e+05	0.0002	0.9998
	Year2019	23.4121	6.893283e+04	0.0003	0.9997
	Hym_visit_sin_apis:Year2016	193.0807	1.570898e+05	0.0012	0.9990
	Hym_visit_sin_apis:Year2017	-6.6703	4.591728e+05	0.0000	1.0000
	Hym_visit_sin_apis:Year2018	-5.2030	4.814223e+05	0.0000	1.0000
	Hym_visit_sin_apis:Year2019	-4.7737	2.775939e+05	0.0000	1.0000
	(Intercept)	25.5866	7.851471e+04	0.0003	0.9997
	Hym_visit_sin_apis	0.0949	2.720651e+05	0.0000	1.0000
Cistus libanotis	Year2016	2082.3431	2.023424e+07	0.0001	0.9999
	Year2018	3766.2555	2.538026e+07	0.0001	0.9999
	Year2019	-22.6081	7.851471e+04	-0.0003	0.9998
	Hym_visit_sin_apis:Year2018	-817.3011	6.554444e+07	0.0000	1.0000
	Hym_visit_sin_apis:Year2019	2.3433	2.720651e+05	0.0000	1.0000
	(Intercept)	1.5586	1.292700e+00	1.2057	0.2279
	Hym_visit_sin_apis	10.5805	6.954100e+00	1.5215	0.1281
	Year2016	18.9761	4.116931e+04	0.0005	0.9996
Cistus monspeliensis	Year2017	-3.2161	3.299000e+00	-0.9749	0.3296
	Year2018	22.3390	9.653374e+04	0.0002	0.9998
	Year2019	-0.9562	1.279300e+00	-0.7475	0.4548
	Hym_visit_sin_apis:Year2018	-3.6723	1.790710e+06	0.0000	1.0000
	(Intercept)	1.8316	3.426000e-01	5.3463	0.0000
	Hym_visit_sin_apis	1.6313	1.526100e+00	1.0689	0.2851
	Year2016	22.1490	4.263680e+04	0.0005	0.9996
	Year2017	1.8078	1.088100e+00	1.6614	0.0966
Cistus salviifolius	Year2018	23.0615	3.970515e+04	0.0006	0.9995
	Year2019	23.2581	4.661927e+04	0.0005	0.9996
	Hym_visit_sin_apis:Year2016	-1.8524	8.803466e+04	0.0000	1.0000
	Hym_visit_sin_apis:Year2017	505.9024	6.110814e+05	0.0008	0.9993

Halimium calycinum	Hym_visit_sin_apis:Year2018	-2.4932	2.361673e+05	0.0000	1.0000
	Hym_visit_sin_apis:Year2019	-2.1332	1.989099e+05	0.0000	1.0000
	(Intercept)	0.4643	2.721000e-01	1.7065	0.0879
	Hym_visit_sin_apis	0.0520	6.560560e+07	0.0000	1.0000
	Year2016	41.3199	3.355443e+07	0.0000	1.0000
	Year2017	37.4526	1.539583e+07	0.0000	1.0000
Halimium halimifolium	Year2019	36.9361	1.211828e+07	0.0000	1.0000
	(Intercept)	1.0986	5.774000e-01	1.9029	0.0571
	Hym_visit_sin_apis	-6.9386	5.568800e+00	-1.2460	0.2128
	Year2016	0.6360	7.276000e-01	0.8741	0.3821
	Year2017	48.9354	1.677722e+07	0.0000	1.0000
	Year2018	0.0028	6.472000e-01	0.0043	0.9966
Lavandula pedunculata	Year2019	1.0827	1.015800e+00	1.0659	0.2865
	Hym_visit_sin_apis:Year2017	-11.3068	5.592405e+07	0.0000	1.0000
	Hym_visit_sin_apis:Year2018	7.5503	5.673200e+00	1.3309	0.1832
	(Intercept)	1.2137	1.678000e-01	7.2331	0.0000
	Hym_visit_sin_apis	4.7703	2.664700e+00	1.7902	0.0734
	Year2016	0.5105	2.230000e-01	2.2889	0.0221
Lavandula stoechas	Year2017	-0.1642	3.287000e-01	-0.4996	0.6174
	Year2018	0.5367	1.539000e-01	3.4866	0.0005
	Year2019	0.5280	1.359000e-01	3.8858	0.0001
	Hym_visit_sin_apis:Year2016	-2.4060	3.532500e+00	-0.6811	0.4958
	Hym_visit_sin_apis:Year2017	-2.9645	2.839200e+00	-1.0441	0.2964
	Hym_visit_sin_apis:Year2018	-13.9295	3.089700e+00	-4.5083	0.0000
Salvia rosmarinus	Hym_visit_sin_apis:Year2019	-5.5602	2.715600e+00	-2.0475	0.0406
	(Intercept)	1.4403	1.128000e-01	12.7733	0.0000
	Hym_visit_sin_apis	-0.3904	1.084000e+00	-0.3602	0.7187
	Year2016	1.0725	1.840000e-01	5.8303	0.0000
	Year2017	-0.2026	3.411000e-01	-0.5941	0.5525
	Year2018	0.4603	3.062000e-01	1.5034	0.1327
Teucrium fruticans	Year2019	1.9237	5.307000e-01	3.6249	0.0003
	Hym_visit_sin_apis:Year2016	34.1464	1.697370e+01	2.0117	0.0442
	Hym_visit_sin_apis:Year2017	-28.8150	1.265390e+01	-2.2772	0.0228
	Hym_visit_sin_apis:Year2018	245.6431	1.060577e+02	2.3161	0.0206
	Hym_visit_sin_apis:Year2019	-9.6073	2.300450e+01	-0.4176	0.6762
	(Intercept)	2.2131	4.078000e-01	5.4268	0.0000
Teucrium fruticans	Hym_visit_sin_apis	-2.6545	6.592000e-01	-4.0266	0.0001
	Year2016	33.6459	5.097241e+04	0.0007	0.9995
	Year2017	-25.0713	9.859248e+03	-0.0025	0.9980
	Hym_visit_sin_apis:Year2016	-22528.7476	3.202766e+07	-0.0007	0.9994
	(Intercept)	3.4096	4.757000e-01	7.1674	0.0000
	Hym_visit_sin_apis	-0.4345	2.383300e+00	-0.1823	0.8553
Teucrium fruticans	Year2017	-2.0387	7.752000e-01	-2.6301	0.0085
	Year2018	-3.1298	1.099400e+00	-2.8468	0.0044
	Year2019	-1.2307	2.010200e+00	-0.6122	0.5404
	Hym_visit_sin_apis:Year2017	-0.5060	2.669100e+00	-0.1896	0.8496
	Hym_visit_sin_apis:Year2018	1.7467	2.777700e+00	0.6288	0.5295





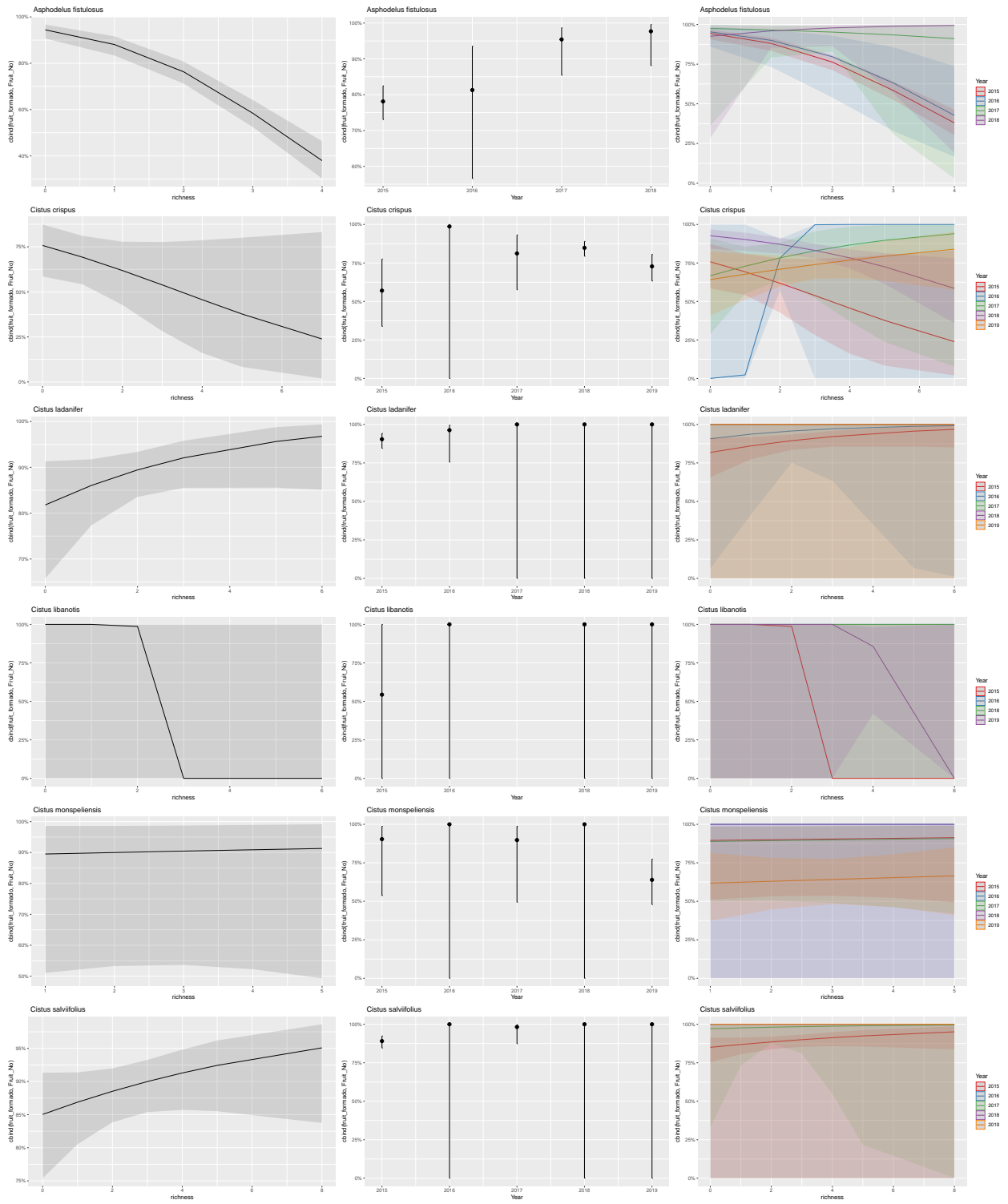
Richness

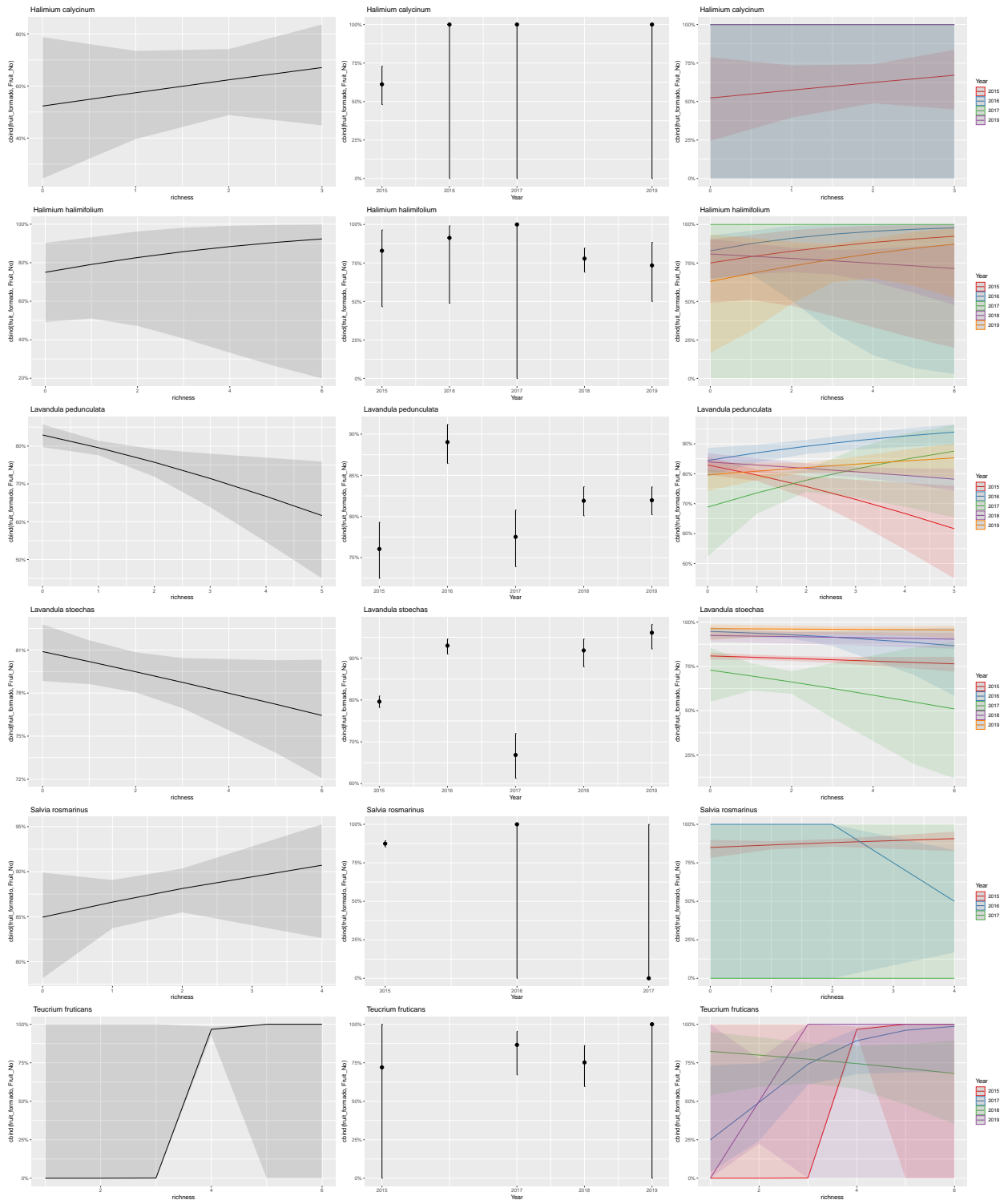
A- GLM binomial (cbind(fruit_formado, Fruit_No))

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	2.8305	0.2826	10.0164	0.0000
	richness	-0.8303	0.0967	-8.5867	0.0000
	Year2016	0.1970	0.6403	0.3077	0.7583
	Year2017	0.8382	2.1789	0.3847	0.7005
	Year2018	-0.3031	1.7846	-0.1698	0.8652
	richness:Year2016	NA	NA	NA	NA
	richness:Year2017	0.4939	1.2530	0.3941	0.6935
	richness:Year2018	1.4809	1.2458	1.1888	0.2345
Cistus crispus	(Intercept)	1.1394	0.4062	2.8051	0.0050
	richness	-0.3284	0.2296	-1.4303	0.1526
	Year2016	-9.9148	723.4635	-0.0137	0.9891
	Year2017	-0.4431	0.9102	-0.4869	0.6264
	Year2018	1.3992	0.5992	2.3351	0.0195
	Year2019	-0.5534	0.6349	-0.8717	0.3834
	richness:Year2016	5.3566	361.7315	0.0148	0.9882
	richness:Year2017	0.6223	0.5382	1.1562	0.2476
	richness:Year2018	0.0148	0.2596	0.0570	0.9545
	richness:Year2019	0.4812	0.2773	1.7352	0.0827
Cistus ladanifer	(Intercept)	1.5030	0.4337	3.4652	0.0005
	richness	0.3169	0.1926	1.6451	0.1000
	Year2016	0.7742	2.5680	0.3015	0.7630
	Year2017	19.6930	20604.9179	0.0010	0.9992
	Year2018	19.5411	14014.5879	0.0014	0.9989
	Year2019	19.3419	10381.4058	0.0019	0.9985
	richness:Year2016	0.1014	1.1636	0.0872	0.9305
	richness:Year2017	-0.3169	9918.3805	0.0000	1.0000
	richness:Year2018	-0.2756	7408.0719	0.0000	1.0000
	richness:Year2019	-0.3862	5450.3221	-0.0001	0.9999
Cistus libanotis	(Intercept)	52.7253	182299.4100	0.0003	0.9998
	richness	-24.2168	74741.2002	-0.0003	0.9997
	Year2016	-25.0424	312746.7257	-0.0001	0.9999
	Year2018	-25.1384	327798.3768	-0.0001	0.9999
	Year2019	45.9336	279147.0059	0.0002	0.9999
	richness:Year2016	24.0704	370272.9803	0.0001	0.9999
	richness:Year2018	24.1721	99516.3306	0.0002	0.9998
	richness:Year2019	NA	NA	NA	NA
Cistus monspeliensis	(Intercept)	2.0940	1.1280	1.8564	0.0634
	richness	0.0516	0.2007	0.2572	0.7970
	Year2016	18.1681	8018.5612	0.0023	0.9982
	Year2017	-0.0662	1.5088	-0.0438	0.9650
	Year2018	17.1258	35032.4378	0.0005	0.9996
	Year2019	-1.6654	1.1207	-1.4860	0.1373
	richness:Year2016	NA	NA	NA	NA
	richness:Year2017	NA	NA	NA	NA
	richness:Year2018	0.3873	9427.9858	0.0000	1.0000
	richness:Year2019	NA	NA	NA	NA
Cistus salviifolius	(Intercept)	1.7370	0.3148	5.5181	0.0000
	richness	0.1531	0.1108	1.3816	0.1671
	Year2016	19.1513	6117.6988	0.0031	0.9975

Halimium calycinum	Year2017	1.7624	2.1655	0.8138	0.4157
	Year2018	19.4385	7689.8029	0.0025	0.9980
	Year2019	19.7359	8507.3108	0.0023	0.9981
	richness:Year2016	-0.0792	3010.1648	0.0000	1.0000
	richness:Year2017	0.0667	0.9493	0.0703	0.9440
	richness:Year2018	-0.0490	4815.6843	0.0000	1.0000
	richness:Year2019	-0.2672	3826.7396	-0.0001	0.9999
	(Intercept)	0.0916	0.6221	0.1472	0.8830
	richness	0.2064	0.3130	0.6596	0.5095
	Year2016	22.4745	48196.1434	0.0005	0.9996
	Year2017	23.2065	59420.0916	0.0004	0.9997
	Year2019	23.1093	26660.4587	0.0009	0.9993
	richness:Year2016	0.0903	30514.1820	0.0000	1.0000
	richness:Year2017	0.1065	41586.4906	0.0000	1.0000
Halimium halimifolium	richness:Year2019	-0.1493	13212.7147	0.0000	1.0000
	(Intercept)	1.0986	0.5774	1.9029	0.0571
	richness	0.2320	0.3158	0.7345	0.4626
	Year2016	0.4776	0.7654	0.6240	0.5326
	Year2017	19.1686	5304.7210	0.0036	0.9971
	Year2018	0.3398	0.7147	0.4754	0.6345
	Year2019	-0.5669	1.2367	-0.4584	0.6467
	richness:Year2016	0.1403	0.7314	0.1919	0.8478
	richness:Year2017	-0.4268	2817.9169	-0.0002	0.9999
	richness:Year2018	-0.3193	0.3445	-0.9270	0.3539
	richness:Year2019	NA	NA	NA	NA
	(Intercept)	1.5804	0.1081	14.6132	0.0000
	richness	-0.2213	0.0858	-2.5805	0.0099
	Year2016	0.1116	0.2132	0.5236	0.6006
Lavandula pedunculata	Year2017	-0.7870	0.3730	-2.1098	0.0349
	Year2018	0.0747	0.1621	0.4612	0.6446
	Year2019	-0.2180	0.1897	-1.1492	0.2505
	richness:Year2016	0.4306	0.1179	3.6530	0.0003
	richness:Year2017	0.4529	0.2192	2.0663	0.0388
	richness:Year2018	0.1458	0.0951	1.5329	0.1253
	richness:Year2019	0.3005	0.1132	2.6535	0.0080
	(Intercept)	1.4428	0.0652	22.1361	0.0000
	richness	-0.0443	0.0262	-1.6929	0.0905
	Year2016	1.4538	0.3451	4.2124	0.0000
	Year2017	-0.4552	0.4070	-1.1184	0.2634
	Year2018	1.0595	0.2275	4.6577	0.0000
	Year2019	1.8167	0.5524	3.2889	0.0010
	richness:Year2016	-0.1266	0.1814	-0.6978	0.4853
Lavandula stoechas	richness:Year2017	-0.1136	0.2387	-0.4759	0.6342
	richness:Year2018	NA	NA	NA	NA
	richness:Year2019	0.0125	0.1275	0.0980	0.9219
	(Intercept)	1.7299	0.2323	7.4465	0.0000
	richness	0.1371	0.1419	0.9664	0.3338
	Year2016	33.4022	7912.3607	0.0042	0.9966
	Year2017	-22.3912	5799.3384	-0.0039	0.9969
	richness:Year2016	-8.9202	1978.0902	-0.0045	0.9964
	richness:Year2017	-0.0254	3669.6628	0.0000	1.0000
	(Intercept)	-37.3257	10591.3267	-0.0035	0.9972
	richness	10.1733	2647.8317	0.0038	0.9969
	Year2017	35.1475	10591.3268	0.0033	0.9974
Salvia rosmarinus					
Teucrium fruticans					

Year2018	39.0272	10591.3267	0.0037	0.9971
Year2019	16.9792	5295.6633	0.0032	0.9974
richness:Year2017	-9.0978	2647.8317	-0.0034	0.9973
richness:Year2018	-10.3309	2647.8317	-0.0039	0.9969
richness:Year2019	NA	NA	NA	NA





B- GLMM binomial (ramdon= Site_ID)

Plant_gen_sp	term	estimate	std.error	statistic	p.value
Asphodelus fistulosus	(Intercept)	0.4620	9.853000e-01	0.4689	0.6391
	richness	0.1292	1.660000e-01	0.7788	0.4361
	Year2016	0.1997	6.428000e-01	0.3106	0.7561
	Year2017	2.5025	2.180000e+00	1.1479	0.2510
	Year2018	1.3597	1.790800e+00	0.7593	0.4477
	richness:Year2017	-0.4662	1.253300e+00	-0.3720	0.7099
	richness:Year2018	0.5221	1.245700e+00	0.4191	0.6751
Cistus crispus	(Intercept)	0.5423	5.688000e-01	0.9533	0.3404
	richness	-0.3325	2.296000e-01	-1.4482	0.1476
	Year2016	-10.2108	3.137427e+03	-0.0033	0.9974
	Year2017	-0.3616	1.001400e+00	-0.3611	0.7180
	Year2018	1.8539	7.700000e-01	2.4077	0.0161
	Year2019	-0.0720	7.937000e-01	-0.0907	0.9277
	richness:Year2016	5.8795	1.568713e+03	0.0037	0.9970
	richness:Year2017	0.9680	5.637000e-01	1.7173	0.0859
	richness:Year2018	0.0791	2.724000e-01	0.2906	0.7714
	richness:Year2019	0.4867	2.892000e-01	1.6832	0.0923
Cistus ladanifer	(Intercept)	1.5312	5.678000e-01	2.6968	0.0070
	richness	0.3134	2.069000e-01	1.5144	0.1299
	Year2016	0.4747	2.880700e+00	0.1648	0.8691
	Year2017	19.7430	2.082437e+04	0.0009	0.9992
	Year2018	19.8230	4.521294e+04	0.0004	0.9997
	Year2019	21.1643	6.137042e+04	0.0003	0.9997
	richness:Year2016	0.4138	1.337300e+00	0.3094	0.7570
	richness:Year2017	-0.8103	8.753935e+03	-0.0001	0.9999
	richness:Year2018	0.2614	2.593685e+04	0.0000	1.0000
	richness:Year2019	0.1390	4.192356e+04	0.0000	1.0000
Cistus libanotis	(Intercept)	78.8217	1.370024e+07	0.0000	1.0000
	richness	-36.3278	7.413454e+06	0.0000	1.0000
	Year2016	-26.2296	3.063163e+07	0.0000	1.0000
	Year2018	-26.2095	3.491656e+07	0.0000	1.0000
	Year2019	68.2811	2.557861e+07	0.0000	1.0000
	richness:Year2016	36.5380	4.130713e+07	0.0000	1.0000
	richness:Year2018	36.2932	1.085877e+07	0.0000	1.0000
Cistus monspeliensis	(Intercept)	0.8891	1.473600e+00	0.6034	0.5463
	richness	0.2721	2.286000e-01	1.1898	0.2341
	Year2016	18.7673	1.824229e+04	0.0010	0.9992
	Year2017	1.8420	1.787100e+00	1.0307	0.3027
	Year2018	20.1809	1.065380e+06	0.0000	1.0000
	Year2019	-0.6036	1.286400e+00	-0.4692	0.6389
	richness:Year2018	1.1287	3.051270e+05	0.0000	1.0000
Cistus salviifolius	(Intercept)	1.7101	4.112000e-01	4.1589	0.0000
	richness	0.1567	1.353000e-01	1.1576	0.2470
	Year2016	20.3691	1.367645e+04	0.0015	0.9988
	Year2017	1.6874	2.276700e+00	0.7412	0.4586
	Year2018	21.8635	4.324051e+04	0.0005	0.9996
	Year2019	22.2881	1.361850e+05	0.0002	0.9999
	richness:Year2016	-0.7385	4.084832e+03	-0.0002	0.9999
	richness:Year2017	0.1621	9.992000e-01	0.1622	0.8711
	richness:Year2018	-0.0169	2.788062e+04	0.0000	1.0000

Halimium calycinum	richness:Year2019	0.6463	8.015992e+04	0.0000	1.0000
	(Intercept)	0.0916	6.221000e-01	0.1472	0.8830
	richness	0.2064	3.130000e-01	0.6596	0.5095
	Year2016	47.8296	6.710886e+07	0.0000	1.0000
	Year2017	30.3811	4.691079e+07	0.0000	1.0000
	Year2019	32.6232	2.597461e+07	0.0000	1.0000
	richness:Year2016	2.4757	3.874532e+07	0.0000	1.0000
	richness:Year2017	6.9085	3.118282e+07	0.0000	1.0000
Halimium halimifolium	richness:Year2019	15.4174	1.260957e+07	0.0000	1.0000
	(Intercept)	1.0986	5.774000e-01	1.9029	0.0571
	richness	0.2320	3.158000e-01	0.7345	0.4626
	Year2016	0.4776	7.654000e-01	0.6240	0.5326
	Year2017	17.9710	1.445280e+07	0.0000	1.0000
	Year2018	0.3398	7.147000e-01	0.4754	0.6345
	Year2019	-0.5669	1.236700e+00	-0.4584	0.6467
	richness:Year2016	0.1403	7.314000e-01	0.1919	0.8478
Lavandula pedunculata	richness:Year2017	13.5208	1.378439e+07	0.0000	1.0000
	richness:Year2018	-0.3193	3.445000e-01	-0.9270	0.3539
	(Intercept)	1.3930	2.154000e-01	6.4680	0.0000
	richness	-0.1083	1.077000e-01	-1.0052	0.3148
	Year2016	-0.0039	2.776000e-01	-0.0140	0.9888
	Year2017	-1.1796	5.348000e-01	-2.2056	0.0274
	Year2018	0.2655	2.188000e-01	1.2134	0.2250
	Year2019	-0.0689	2.137000e-01	-0.3225	0.7471
Lavandula stoechas	richness:Year2016	0.3399	1.398000e-01	2.4309	0.0151
	richness:Year2017	0.7467	2.697000e-01	2.7686	0.0056
	richness:Year2018	0.0276	1.158000e-01	0.2380	0.8119
	richness:Year2019	0.2819	1.239000e-01	2.2746	0.0229
	(Intercept)	1.2888	3.052000e-01	4.2228	0.0000
	richness	0.0346	3.960000e-02	0.8736	0.3823
	Year2016	3.0023	7.439000e-01	4.0358	0.0001
	Year2017	-0.3090	6.645000e-01	-0.4651	0.6419
Salvia rosmarinus	Year2018	1.3264	4.537000e-01	2.9234	0.0035
	Year2019	2.9111	7.128000e-01	4.0839	0.0000
	richness:Year2016	-0.7713	3.123000e-01	-2.4699	0.0135
	richness:Year2017	-0.5871	2.974000e-01	-1.9742	0.0484
	richness:Year2019	-0.0664	1.305000e-01	-0.5090	0.6107
	(Intercept)	1.3570	4.752000e-01	2.8556	0.0043
	richness	0.4085	2.442000e-01	1.6731	0.0943
	Year2016	37.8359	3.600386e+04	0.0011	0.9992
Teucrium fruticans	Year2017	-23.1584	1.660939e+04	-0.0014	0.9989
	richness:Year2016	-10.2067	9.000966e+03	-0.0011	0.9991
	richness:Year2017	-0.2670	1.046328e+04	0.0000	1.0000
	(Intercept)	-41.3259	4.746875e+04	-0.0009	0.9993
	richness	11.1733	1.186719e+04	0.0009	0.9992
	Year2017	39.1477	4.746875e+04	0.0008	0.9993
	Year2018	43.0274	4.746875e+04	0.0009	0.9993
	Year2019	18.9793	2.373438e+04	0.0008	0.9994
	richness:Year2017	-10.0978	1.186719e+04	-0.0009	0.9993
	richness:Year2018	-11.3309	1.186719e+04	-0.0010	0.9992

