

Table S1-Full list of main and interaction effects and their contributions to variance in RWU estimation accuracy based on GLM-ANOVA analysis.

	Df	Sum.Sq	Mean.Sq	
Category4_Prior	2	14.7592066	7.37960331	35.58%
Category4_grouping_number	2	8.35249304	4.17624652	20.13%
Category2_uptake_pattern:Category4_Prior	4	3.88677409	0.97169352	9.37%
Category4_grouping_number:Category4_Prior	4	1.80636316	0.45159079	4.35%
Category1_soil_water_contrast:Category4_grouping_number:Category4_Prior	8	0.89908252	0.11238532	2.17%
Category1_soil_water_contrast:Category4_Prior	4	0.70610821	0.17652705	1.70%
Category1_soil_water_contrast	2	0.68566234	0.34283117	1.65%
Category1_soil_water_contrast:Category4_grouping_number	4	0.43646174	0.10911543	1.05%
Category1_soil_water_contrast:Category2_uptake_pattern	4	0.37463783	0.09365946	0.90%
Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	4	0.30015942	0.07503986	0.72%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.29192201	0.03649025	0.70%
Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	8	0.25844252	0.03230532	0.62%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number	4	0.25386284	0.06346571	0.61%
Category1_soil_water_contrast:Category4_grouping_number:Category4_Error_structure	4	0.22109176	0.05527294	0.53%
Category4_Grouping_scheme:Category4_Prior	2	0.20240102	0.10120051	0.49%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number	8	0.16254573	0.02031822	0.39%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Prior	8	0.1592364	0.01990455	0.38%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Prior	8	0.15154465	0.01894308	0.37%

Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_Prior	4	0.14640534	0.03660134	0.35%
Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	2	0.14578792	0.07289396	0.35%
Category4_Error_structure	1	0.13903237	0.13903237	0.34%
Category1_Measurement_error	2	0.13796282	0.06898141	0.33%
Category4_grouping_number:Category4_Prior:Category4_Error_structure	4	0.12874333	0.03218583	0.31%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number	8	0.11583634	0.01447954	0.28%
Category1_soil_water_contrast:Category4_Grouping_scheme	2	0.10896255	0.05448128	0.26%
Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	4	0.10879293	0.02719823	0.26%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number	8	0.10178146	0.01272268	0.25%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	16	0.09498191	0.00593637	0.23%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern	8	0.0869866	0.01087333	0.21%
Category1_soil_water_contrast:Category1_Measurement_error	4	0.08627624	0.02156906	0.21%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number:Category4_Prior	16	0.08277376	0.00517336	0.20%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	64	0.07924729	0.00123824	0.19%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	32	0.07635824	0.0023862	0.18%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	8	0.07258103	0.00907263	0.17%

Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	16	0.07198629	0.00449914	0.17%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	8	0.07025968	0.00878246	0.17%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	32	0.06783262	0.00211977	0.16%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.06744918	0.00421557	0.16%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number	16	0.06735418	0.00420964	0.16%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	32	0.06684678	0.00208896	0.16%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number	16	0.06512377	0.00407024	0.16%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	0.06377278	0.0019929	0.15%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.06239757	0.0077997	0.15%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	64	0.06146648	0.00096041	0.15%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	0.06135926	0.00191748	0.15%
Category1_soil_water_contrast:Category3_Plant_water_variance	4	0.06082869	0.01520717	0.15%

Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number:Category4_Error_structure	8	0.06066202	0.00758275	0.15%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	46	0.05989656	0.0013021	0.14%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	16	0.05949509	0.00371844	0.14%
Category4_Grouping_scheme:Category4_grouping_number	2	0.05890203	0.02945102	0.14%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior	8	0.05778439	0.00722305	0.14%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	8	0.05662042	0.00707755	0.14%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.05638269	0.00352392	0.14%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Error_structure	4	0.05618221	0.01404555	0.14%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	32	0.05572621	0.00174144	0.13%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Error_structure	8	0.05543287	0.00692911	0.13%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number	8	0.05512726	0.00689091	0.13%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	32	0.05443007	0.00170094	0.13%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	16	0.0539892	0.00337433	0.13%

Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.05398088	0.00337381	0.13%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.05395189	0.00337199	0.13%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.05343316	0.00333957	0.13%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	24	0.0530443	0.00221018	0.13%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Error_structure	4	0.05233051	0.01308263	0.13%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	0.05187196	0.001621	0.13%
Category1_Measurement_error:Category4_grouping_number:Category4_Error_structure	4	0.05119011	0.01279753	0.12%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	0.050247	0.00157022	0.12%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Error_structure	4	0.04961862	0.01240466	0.12%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	16	0.04932087	0.00308255	0.12%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	16	0.04929532	0.00308096	0.12%
Category1_soil_water_contrast:Category4_Error_structure	2	0.04898222	0.02449111	0.12%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance	16	0.04897142	0.00306071	0.12%

Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	0.04767785	0.00148993	0.11%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	0.04727601	0.011819	0.11%
Category2_uptake_pattern:Category4_Error_structure	2	0.04660567	0.02330284	0.11%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior	16	0.04613596	0.0028835	0.11%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.04586569	0.00286661	0.11%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	8	0.04554232	0.00569279	0.11%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	26	0.0445088	0.00171188	0.11%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	16	0.04445536	0.00277846	0.11%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Prior:Category4_Error_structure	8	0.04434068	0.00554258	0.11%
Category2_uptake_pattern:Category4_grouping_number	4	0.04390115	0.01097529	0.11%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	32	0.04373516	0.00136672	0.11%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance	8	0.0435774	0.00544717	0.11%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	0.04268681	0.0106717	0.10%

Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	0.04266866	0.0013334	0.10%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	16	0.04164597	0.00260287	0.10%
Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	4	0.04152181	0.01038045	0.10%
Category4_Grouping_scheme:Category4_Error_structure	1	0.04068972	0.04068972	0.10%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance	8	0.03944474	0.00493059	0.10%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	19	0.03918355	0.00206229	0.09%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.03888838	0.00486105	0.09%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	16	0.03842232	0.0024014	0.09%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	16	0.03717766	0.0023236	0.09%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	8	0.03681738	0.00460217	0.09%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	32	0.03680617	0.00115019	0.09%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	8	0.03668204	0.00458526	0.09%

Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.03640354	0.00227522	0.09%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	16	0.03637561	0.00227348	0.09%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	8	0.03613855	0.00451732	0.09%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	18	0.03579248	0.00198847	0.09%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	0.03563927	0.00111373	0.09%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.03486382	0.00217899	0.08%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme	4	0.03481828	0.00870457	0.08%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	0.03394445	0.00106076	0.08%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Error_structure	8	0.03389941	0.00423743	0.08%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.03337856	0.00208616	0.08%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	32	0.03195585	0.00099862	0.08%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.03189686	0.00199355	0.08%

Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	16	0.03170273	0.00198142	0.08%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.03133881	0.00195868	0.08%
Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	4	0.0313375	0.00783438	0.08%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.03124994	0.00195312	0.08%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	16	0.0305388	0.00190868	0.07%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.03035857	0.00189741	0.07%
Category1_Measurement_error:Category4_grouping_number	4	0.03011202	0.00752801	0.07%
Category2_uptake_pattern:Category3_Plant_water_variance	4	0.03006767	0.00751692	0.07%
Category1_Measurement_error:Category4_grouping_number:Category4_Prior	8	0.02991755	0.00373969	0.07%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	4	0.02945683	0.00736421	0.07%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior	8	0.02940101	0.00367513	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	32	0.02878409	0.0008995	0.07%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.02875863	0.00359483	0.07%
Category4_Grouping_scheme	1	0.02871525	0.02871525	0.07%

Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.02865346	0.00358168	0.07%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	16	0.02857572	0.00178598	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.02828773	0.00176798	0.07%
Category2_uptake_pattern:Category4_Grouping_scheme	2	0.02813963	0.01406982	0.07%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	16	0.02797604	0.0017485	0.07%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme	4	0.02783616	0.00695904	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior	16	0.02751249	0.00171953	0.07%
Category1_soil_water_contrast:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.02723948	0.00340493	0.07%
Category1_Measurement_error:Category4_Prior:Category4_Error_structure	4	0.02657575	0.00664394	0.06%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	0.02575894	0.00080497	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	8	0.02540377	0.00317547	0.06%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	7	0.02516988	0.0035957	0.06%
Category3_Plant_water_variance:Category4_Prior	4	0.02516102	0.00629026	0.06%

Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	32	0.02490145	0.00077817	0.06%
Category1_Measurement_error:Category4_Prior	4	0.02474585	0.00618646	0.06%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	16	0.0243694	0.00152309	0.06%
Category2_uptake_pattern	2	0.02414817	0.01207408	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	32	0.02390475	0.00074702	0.06%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	8	0.02377811	0.00297226	0.06%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number	8	0.02362907	0.00295363	0.06%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	8	0.02349868	0.00293734	0.06%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.02284039	0.00142752	0.06%
Category4_grouping_number:Category4_Error_structure	2	0.02275159	0.01137579	0.05%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Prior	8	0.02233695	0.00279212	0.05%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.02201119	0.0013757	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	32	0.02077984	0.00064937	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	8	0.02058049	0.00257256	0.05%

Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	4	0.01975967	0.00493992	0.05%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	8	0.01940832	0.00242604	0.05%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.019249	0.00481225	0.05%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	8	0.01918232	0.00239779	0.05%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.01870542	0.00116909	0.05%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior	8	0.01825675	0.00228209	0.04%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	8	0.01814598	0.00226825	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.01813595	0.0011335	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	16	0.01802706	0.00112669	0.04%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Error_structure	4	0.01799821	0.00449955	0.04%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	16	0.01774007	0.00110875	0.04%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	8	0.01758164	0.00219771	0.04%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	16	0.017487	0.00109294	0.04%

Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	4	0.01747865	0.00436966	0.04%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.0172937	0.00216171	0.04%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	16	0.01712216	0.00107014	0.04%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	8	0.0168509	0.00210636	0.04%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.01639082	0.00204885	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.01622054	0.00202757	0.04%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.01608316	0.0020104	0.04%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	16	0.01597436	0.0009984	0.04%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	8	0.01591675	0.00198959	0.04%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.01580007	0.0009875	0.04%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.01564285	0.00097768	0.04%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	8	0.0154856	0.0019357	0.04%

Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	14	0.01538766	0.00109912	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	16	0.01532783	0.00095799	0.04%
Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.01531834	0.00191479	0.04%
Category1_soil_water_contrast:Category4_Prior:Category4_Error_structure	4	0.01527529	0.00381882	0.04%
Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	8	0.01515912	0.00189489	0.04%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	8	0.01496413	0.00187052	0.04%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	8	0.01488	0.00186	0.04%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	16	0.0144622	0.00090389	0.03%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number	8	0.01436072	0.00179509	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	16	0.01434447	0.00089653	0.03%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	8	0.01423281	0.0017791	0.03%
Category1_Measurement_error:Category3_Plant_water_variance	4	0.01422126	0.00355531	0.03%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	16	0.0141365	0.00088353	0.03%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	16	0.01390603	0.00086913	0.03%

Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.01354529	0.00169316	0.03%
Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.01353381	0.00169173	0.03%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	2	0.01341781	0.0067089	0.03%
Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	4	0.01325538	0.00331384	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	16	0.01319682	0.0008248	0.03%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	8	0.01303247	0.00162906	0.03%
Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	2	0.01298034	0.00649017	0.03%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_Error_structure	2	0.01278202	0.00639101	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	14	0.01237983	0.00088427	0.03%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance	8	0.01168023	0.00146003	0.03%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	8	0.0116285	0.00145356	0.03%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	14	0.01155727	0.00082552	0.03%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.01125296	0.00140662	0.03%

Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	8	0.01121139	0.00140142	0.03%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Error_structure	4	0.01107118	0.00276779	0.03%
Category3_Plant_water_variance	2	0.0105768	0.0052884	0.03%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.01044481	0.0013056	0.03%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	8	0.01013356	0.0012667	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	16	0.00931884	0.00058243	0.02%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.00929954	0.00058122	0.02%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme	4	0.00912793	0.00228198	0.02%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number	4	0.00878694	0.00219673	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme	8	0.00877808	0.00109726	0.02%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.00864862	0.00108108	0.02%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	8	0.00812563	0.0010157	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.00807425	0.00050464	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme	8	0.00792493	0.00099062	0.02%

Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.00787839	0.0004924	0.02%
Category1_Measurement_error:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.00777229	0.00097154	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.00745099	0.00093137	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme	4	0.00737761	0.0018444	0.02%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	8	0.00724646	0.00090581	0.02%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.00711307	0.00088913	0.02%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	8	0.00695295	0.00086912	0.02%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	4	0.00563582	0.00140896	0.01%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior	4	0.00561685	0.00140421	0.01%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	4	0.00558215	0.00139554	0.01%
Category3_Plant_water_variance:Category4_grouping_number	4	0.00547664	0.00136916	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.0054202	0.00067753	0.01%
Category4_Prior:Category4_Error_structure	2	0.0054186	0.0027093	0.01%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	8	0.00468068	0.00058508	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	8	0.00450304	0.00056288	0.01%
Category1_Measurement_error:Category4_Error_structure	2	0.00448814	0.00224407	0.01%

Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.00423703	0.00052963	0.01%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.00419856	0.00052482	0.01%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.00417385	0.00104346	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	4	0.00404764	0.00101191	0.01%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_Error_structure	4	0.00394728	0.00098682	0.01%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	4	0.00375816	0.00093954	0.01%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	4	0.00340866	0.00085216	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme	4	0.00337226	0.00084307	0.01%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.00324608	0.00040576	0.01%
Category3_Plant_water_variance:Category4_Grouping_scheme	2	0.00312317	0.00156158	0.01%
Category1_Measurement_error:Category2_uptake_pattern	4	0.00312288	0.00078072	0.01%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	4	0.00300748	0.00075187	0.01%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	4	0.00287727	0.00071932	0.01%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	0.00269987	0.00067497	0.01%
Category3_Plant_water_variance:Category4_Error_structure	2	0.0026899	0.00134495	0.01%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.0021808	0.0005452	0.01%

Category1_Measurement_error:Category4_Grouping_scheme:Category4_Error_structure	2	0.00202844	0.00101422	0.00%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.0020098	0.00050245	0.00%
Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	4	0.00140423	0.00035106	0.00%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	2	0.00133913	0.00066956	0.00%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	4	0.00114262	0.00028566	0.00%
Category1_Measurement_error:Category4_Grouping_scheme	2	0.00046987	0.00023493	0.00%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	0.00042787	0.00010697	0.00%

Table S2-Full list of main and interaction effects and their contributions to variance in RWU estimation uncertainty based on GLM-ANOVA analysis.

	Df	Sum.Sq	Mean.Sq	
Category4_grouping_number	2	25.0154368	12.5077184	25.94%
Category4_grouping_number:Category4_Prior	4	18.9130395	4.72825988	19.61%
Category4_Prior	2	11.0103076	5.50515379	11.42%
Category1_soil_water_contrast:Category4_Prior	4	6.56636641	1.6415916	6.81%
Category1_soil_water_contrast:Category4_grouping_number:Category4_Prior	8	4.21841324	0.52730166	4.37%
Category2_uptake_pattern:Category4_Prior	4	3.86386208	0.96596552	4.01%
Category2_uptake_pattern	2	2.29677491	1.14838746	2.38%
Category1_soil_water_contrast:Category4_grouping_number	4	1.64564195	0.41141049	1.71%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.87436971	0.10929621	0.91%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number:Category4_Prior	16	0.83643284	0.05227705	0.87%

Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_Prior	4	0.71772865	0.17943216	0.74%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Prior	8	0.62701903	0.07837738	0.65%
Category1_soil_water_contrast	2	0.59355073	0.29677537	0.62%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Prior	8	0.56813	0.07101625	0.59%
Category4_grouping_number:Category4_Error_structure	2	0.38418724	0.19209362	0.40%
Category4_grouping_number:Category4_Prior:Category4_Error_structure	4	0.38054005	0.09513501	0.40%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	64	0.36962476	0.00577539	0.38%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	16	0.34750008	0.02171876	0.36%
Category1_Measurement_error:Category4_Prior	4	0.33306004	0.08326501	0.35%
Category3_Plant_water_variance:Category4_Prior	4	0.33197701	0.08299425	0.34%
Category1_soil_water_contrast:Category2_uptake_pattern	4	0.32554881	0.0813872	0.34%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	0.30668255	0.07667064	0.32%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	0.30501409	0.00953169	0.32%
Category4_Prior:Category4_Error_structure	2	0.30450947	0.15225474	0.32%
Category1_Measurement_error:Category4_grouping_number:Category4_Prior	8	0.29961271	0.03745159	0.31%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	32	0.23744361	0.00742011	0.25%
Category1_soil_water_contrast:Category4_grouping_number:Category4_Error_structure	4	0.23493663	0.05873416	0.24%

Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	0.23347249	0.00729602	0.24%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_Error_structure	2	0.2327225	0.11636125	0.24%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	64	0.2324693	0.00363233	0.24%
Category4_Grouping_scheme:Category4_Prior	2	0.2323807	0.11619035	0.24%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	32	0.23007031	0.0071897	0.24%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.2248841	0.01405526	0.23%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	32	0.21317178	0.00666162	0.22%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	32	0.20626649	0.00644583	0.21%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior	8	0.20489123	0.0256114	0.21%
Category1_Measurement_error:Category4_Prior:Category4_Error_structure	4	0.20179756	0.05044939	0.21%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	0.19876438	0.00621139	0.21%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	16	0.18629031	0.01164315	0.19%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior	8	0.1848301	0.02310376	0.19%

Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior	16	0.1738025	0.01086266	0.18%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior	16	0.16846278	0.01052892	0.18%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.16449175	0.01028073	0.17%
Category1_soil_water_contrast:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.16429831	0.02053729	0.17%
Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	8	0.15011122	0.0187639	0.16%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	16	0.14939255	0.00933704	0.16%
Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	4	0.14600211	0.03650053	0.15%
Category1_Measurement_error:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.13872833	0.01734104	0.14%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	32	0.13345156	0.00417036	0.14%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	32	0.13226448	0.00413327	0.14%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	0.12973454	0.0040542	0.14%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.12654194	0.00790887	0.13%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	16	0.12578104	0.00786132	0.13%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number	8	0.1253172	0.01566465	0.13%

Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	0.11864169	0.00370755	0.12%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.11606986	0.00725437	0.12%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	16	0.11479468	0.00717467	0.12%
Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	4	0.11462686	0.02865672	0.12%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number:Category4_Error_structure	8	0.11375247	0.01421906	0.12%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number	8	0.11312989	0.01414124	0.12%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	46	0.1129749	0.00245598	0.12%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.11202667	0.00700167	0.12%
Category2_uptake_pattern:Category4_Error_structure	2	0.11018495	0.05509248	0.11%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.10984747	0.00686547	0.11%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	16	0.10931069	0.00683192	0.11%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	16	0.10880087	0.00680005	0.11%
Category1_soil_water_contrast:Category4_Prior:Category4_Error_structure	4	0.10809575	0.02702394	0.11%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Prior:Category4_Error_structure	8	0.10759959	0.01344995	0.11%

Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.10640377	0.01330047	0.11%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.10531973	0.00658248	0.11%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	16	0.10525288	0.00657831	0.11%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	8	0.10415781	0.01301973	0.11%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	0.10304914	0.00322029	0.11%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number	16	0.10128031	0.00633002	0.11%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	0.0995428	0.00311071	0.10%
Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	8	0.0984125	0.01230156	0.10%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Error_structure	4	0.09834677	0.02458669	0.10%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	32	0.09752634	0.0030477	0.10%
Category3_Plant_water_variance:Category4_grouping_number	4	0.09541375	0.02385344	0.10%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.09510179	0.00594386	0.10%

Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	32	0.09438397	0.0029495	0.10%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	8	0.09366256	0.01170782	0.10%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	16	0.09365723	0.00585358	0.10%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	0.09260554	0.00289392	0.10%
Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.09045495	0.01130687	0.09%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	16	0.09028259	0.00564266	0.09%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.08692276	0.00543267	0.09%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	16	0.086449	0.00540306	0.09%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	16	0.08609886	0.00538118	0.09%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	32	0.08428307	0.00263385	0.09%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	0.08353149	0.00261036	0.09%

Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	18	0.08301921	0.00461218	0.09%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number	4	0.08000113	0.02000028	0.08%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	16	0.07786857	0.00486679	0.08%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.07716901	0.00964613	0.08%
Category1_soil_water_contrast:Category1_Measurement_error	4	0.07714529	0.01928632	0.08%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	16	0.07664926	0.00479058	0.08%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	32	0.07586661	0.00237083	0.08%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number	8	0.07478989	0.00934874	0.08%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number	16	0.07425965	0.00464123	0.08%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	16	0.0742014	0.00463759	0.08%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	32	0.07278424	0.00227451	0.08%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	16	0.07187501	0.00449219	0.08%

Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	16	0.07073462	0.00442091	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Error_structure	8	0.07068627	0.00883578	0.07%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	16	0.07056089	0.00441006	0.07%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.06870563	0.0042941	0.07%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	8	0.0669896	0.0083737	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	16	0.06681829	0.00417614	0.07%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	8	0.06608094	0.00826012	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	16	0.06530426	0.00408152	0.07%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	8	0.06452172	0.00806522	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	16	0.06407338	0.00400459	0.07%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.06346472	0.00396655	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	16	0.06319279	0.00394955	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.06309776	0.00394361	0.07%

Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	32	0.06258177	0.00195568	0.07%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	14	0.06234075	0.00445291	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	16	0.06106519	0.00381657	0.06%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.06093961	0.00761745	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	14	0.05964737	0.00426053	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance	16	0.05884545	0.00367784	0.06%
Category2_uptake_pattern:Category4_grouping_number	4	0.05774671	0.01443668	0.06%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme	4	0.05758533	0.01439633	0.06%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	8	0.05690765	0.00711346	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.05616859	0.00351054	0.06%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	8	0.05516433	0.00689554	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	16	0.05478019	0.00342376	0.06%

Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior	8	0.05405947	0.00675743	0.06%
Category2_uptake_pattern:Category3_Plant_water_variance	4	0.05366234	0.01341558	0.06%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	8	0.05302542	0.00662818	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.0520036	0.00325023	0.05%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.05178908	0.00323682	0.05%
Category1_Measurement_error:Category4_grouping_number	4	0.05095941	0.01273985	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.05066382	0.00633298	0.05%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	8	0.04935194	0.00616899	0.05%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance	8	0.04861752	0.00607719	0.05%
Category4_Error_structure	1	0.04857423	0.04857423	0.05%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	8	0.04786282	0.00598285	0.05%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	14	0.04762304	0.00340165	0.05%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Prior	8	0.04758321	0.0059479	0.05%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	8	0.04590989	0.00573874	0.05%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	8	0.04575991	0.00571999	0.05%

Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	26	0.04532972	0.00174345	0.05%
Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	4	0.04458155	0.01114539	0.05%
Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	4	0.04437915	0.01109479	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	16	0.04427216	0.00276701	0.05%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	8	0.04342273	0.00542784	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	16	0.04312117	0.00269507	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.04309015	0.00269313	0.05%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	4	0.04150486	0.01037622	0.04%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number	8	0.04097011	0.00512126	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.04088423	0.00255527	0.04%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	8	0.04064772	0.00508097	0.04%
Category1_Measurement_error:Category3_Plant_water_variance	4	0.0405106	0.01012765	0.04%
Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	4	0.04039586	0.01009896	0.04%

Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	16	0.04014451	0.00250903	0.04%
Category1_Measurement_error:Category4_grouping_number:Category4_Error_structure	4	0.03976053	0.00994013	0.04%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.03936687	0.00246043	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.03896649	0.00487081	0.04%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	8	0.03865331	0.00483166	0.04%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	8	0.03818794	0.00477349	0.04%
Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.03735095	0.00466887	0.04%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	8	0.03692805	0.00461601	0.04%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.03690746	0.00461343	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	16	0.03662613	0.00228913	0.04%
Category1_Measurement_error:Category2_uptake_pattern	4	0.03619772	0.00904943	0.04%
Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	4	0.03592075	0.00898019	0.04%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	8	0.03528664	0.00441083	0.04%

Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior	4	0.03522865	0.00880716	0.04%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number	8	0.03457413	0.00432177	0.04%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	8	0.0342913	0.00428641	0.04%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	8	0.0341341	0.00426676	0.04%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.03354864	0.00209679	0.04%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.03290152	0.00411269	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern	8	0.03259705	0.00407463	0.03%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Error_structure	4	0.03254871	0.00813718	0.03%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.03226243	0.0020164	0.03%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.03223274	0.00402909	0.03%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	8	0.03175311	0.00396914	0.03%
Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	2	0.0310765	0.01553825	0.03%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	8	0.03079488	0.00384936	0.03%

Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance	8	0.03074203	0.00384275	0.03%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	8	0.03037754	0.00379719	0.03%
Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	2	0.03030981	0.01515491	0.03%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.02875694	0.00179731	0.03%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	24	0.02824467	0.00117686	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme	8	0.02815639	0.00351955	0.03%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.02780008	0.00347501	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Error_structure	8	0.02750919	0.00343865	0.03%
Category2_uptake_pattern:Category4_Grouping_scheme	2	0.02728657	0.01364329	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number	8	0.02709381	0.00338673	0.03%
Category1_soil_water_contrast:Category4_Error_structure	2	0.02676838	0.01338419	0.03%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	8	0.02670081	0.0033376	0.03%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance	8	0.02663286	0.00332911	0.03%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	8	0.0266269	0.00332836	0.03%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.02640387	0.00330048	0.03%

Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	4	0.02584246	0.00646062	0.03%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	4	0.02534461	0.00633615	0.03%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	4	0.02521817	0.00630454	0.03%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.02518431	0.00157402	0.03%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	0.02508069	0.00627017	0.03%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.02471023	0.00308878	0.03%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	8	0.02446617	0.00305827	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	19	0.02373203	0.00124905	0.03%
Category3_Plant_water_variance:Category4_Error_structure	2	0.02363772	0.01181886	0.03%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.02331587	0.00291448	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.02307668	0.00288459	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	8	0.0213834	0.00267293	0.02%
Category1_soil_water_contrast:Category3_Plant_water_variance	4	0.02110653	0.00527663	0.02%

Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.02028004	0.00507001	0.02%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	4	0.01979081	0.0049477	0.02%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	8	0.01953183	0.00244148	0.02%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.01904161	0.0023802	0.02%
Category1_Measurement_error:Category4_Error_structure	2	0.01886943	0.00943471	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme	4	0.01867012	0.00466753	0.02%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	4	0.01794151	0.00448538	0.02%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.01714172	0.00214272	0.02%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.01668864	0.00417216	0.02%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.01653606	0.00206701	0.02%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	0.01643564	0.00410891	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.01592829	0.00199104	0.02%
Category1_soil_water_contrast:Category4_Grouping_scheme	2	0.01566977	0.00783489	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_Error_structure	4	0.01487257	0.00371814	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme	4	0.01414723	0.00353681	0.02%

Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	7	0.01399765	0.00199966	0.02%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_Error_structure	2	0.01399121	0.00699561	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	8	0.01390799	0.0017385	0.01%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme	8	0.01383629	0.00172954	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.01363613	0.00170452	0.01%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.01327942	0.00082996	0.01%
Category3_Plant_water_variance	2	0.01254779	0.0062739	0.01%
Category4_Grouping_scheme:Category4_Error_structure	1	0.01247348	0.01247348	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Error_structure	4	0.01224652	0.00306163	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	4	0.01207101	0.00301775	0.01%
Category4_Grouping_scheme:Category4_grouping_number	2	0.01201833	0.00600917	0.01%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number	4	0.01159989	0.00289997	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme	4	0.01127881	0.0028197	0.01%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme	4	0.01038472	0.00259618	0.01%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	8	0.01023523	0.0012794	0.01%

Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	4	0.01016004	0.00254001	0.01%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.00964387	0.00241097	0.01%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Error_structure	4	0.00901161	0.0022529	0.01%
Category1_Measurement_error	2	0.00812517	0.00406259	0.01%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	4	0.00647091	0.00161773	0.01%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.0061979	0.00154948	0.01%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	0.00471473	0.00117868	0.01%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	4	0.00402852	0.00100713	0.00%
Category1_Measurement_error:Category4_Grouping_scheme	2	0.00384021	0.0019201	0.00%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Error_structure	4	0.00284179	0.00071045	0.00%
Category3_Plant_water_variance:Category4_Grouping_scheme	2	0.00170023	0.00085012	0.00%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	2	0.0015111	0.00075555	0.00%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	2	0.00116537	0.00058268	0.00%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	4	0.00045316	0.00011329	0.00%
Category4_Grouping_scheme	1	0.00015023	0.00015023	0.00%

Table S3-Full list of main and interaction effects and their contributions to variance in posterior prediction of plant water isotopic composition accuracy based on GLM-ANOVA analysis.

	Df	Sum.Sq	Mean.Sq	
Category1_Measurement_error	2	145.42967	72.7148348	12.06%

Category3_Plant_water_variance	2	106.81031	53.4051548	8.86%
Category4_grouping_number	2	88.4330728	44.2165364	7.33%
Category1_soil_water_contrast	2	87.7605508	43.8802754	7.28%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance	8	46.4014362	5.80017952	3.85%
Category2_uptake_pattern	2	41.2364996	20.6182498	3.42%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance	16	38.7443468	2.42152168	3.21%
Category1_Measurement_error:Category2_uptake_pattern	4	35.3919626	8.84799065	2.94%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Error_structure	4	27.300933	6.82523326	2.26%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	16	24.6381202	1.53988251	2.04%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance	8	23.3506366	2.91882958	1.94%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance	8	22.787118	2.84838975	1.89%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Error_structure	8	22.4626125	2.80782656	1.86%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Error_structure	4	21.7091081	5.42727703	1.80%
Category1_soil_water_contrast:Category1_Measurement_error	4	17.9448641	4.48621603	1.49%
Category1_soil_water_contrast:Category2_uptake_pattern	4	16.0909564	4.0227391	1.33%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior	8	15.056447	1.88205587	1.25%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	8	14.643456	1.830432	1.21%
Category4_Prior:Category4_Error_structure	2	13.9821594	6.99107971	1.16%
Category4_grouping_number:Category4_Error_structure	2	13.0294366	6.51471832	1.08%

Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	16	12.6341927	0.78963705	1.05%
Category1_soil_water_contrast:Category4_grouping_number:Category4_Error_structure	4	12.5088468	3.12721169	1.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Error_structure	8	11.7235928	1.4654491	0.97%
Category1_Measurement_error:Category3_Plant_water_variance	4	11.6143967	2.90359918	0.96%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern	8	11.3199535	1.41499419	0.94%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior	8	10.3909891	1.29887364	0.86%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	16	9.40307579	0.58769224	0.78%
Category2_uptake_pattern:Category4_grouping_number	4	9.37287245	2.34321811	0.78%
Category1_Measurement_error:Category4_grouping_number:Category4_Error_structure	4	8.86790553	2.21697638	0.74%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	32	8.7392464	0.27310145	0.72%
Category1_Measurement_error:Category4_grouping_number	4	8.32918212	2.08229553	0.69%
Category1_soil_water_contrast:Category4_Prior	4	8.30738128	2.07684532	0.69%
Category2_uptake_pattern:Category4_Error_structure	2	8.17429595	4.08714798	0.68%
Category2_uptake_pattern:Category3_Plant_water_variance	4	7.6003107	1.90007768	0.63%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	32	7.59798284	0.23743696	0.63%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior	16	7.01969765	0.4387311	0.58%
Category1_Measurement_error:Category4_Prior:Category4_Error_structure	4	6.71646342	1.67911585	0.56%

Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number	8	6.70649427	0.83831178	0.56%
Category4_Prior	2	6.64653753	3.32326877	0.55%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	16	6.54795365	0.4092471	0.54%
Category1_soil_water_contrast:Category4_grouping_number	4	6.49759513	1.62439878	0.54%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior	16	5.7703984	0.3606499	0.48%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	32	4.85734343	0.15179198	0.40%
Category3_Plant_water_variance:Category4_Error_structure	2	4.71121163	2.35560581	0.39%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	32	4.44693268	0.13896665	0.37%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	8	4.44429993	0.55553749	0.37%
Category1_Measurement_error:Category4_Prior	4	4.26658452	1.06664613	0.35%
Category1_soil_water_contrast:Category4_grouping_number:Category4_Prior	8	3.74892252	0.46861532	0.31%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number	8	3.49500875	0.43687609	0.29%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number	16	3.40923941	0.21307746	0.28%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	16	3.40608498	0.21288031	0.28%
Category2_uptake_pattern:Category4_Prior	4	3.30655485	0.82663871	0.27%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Prior	8	3.25319513	0.40664939	0.27%

Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	16	3.09598883	0.1934993	0.26%
Category1_Measurement_error:Category4_Error_structure	2	3.06446211	1.53223105	0.25%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Error_structure	4	3.043434	0.7608585	0.25%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	8	2.99226666	0.37403333	0.25%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Prior	8	2.86499829	0.35812479	0.24%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	8	2.73105748	0.34138219	0.23%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	8	2.64653554	0.33081694	0.22%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	32	2.59350475	0.08104702	0.22%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	8	2.54275345	0.31784418	0.21%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	16	2.47910867	0.15494429	0.21%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	16	2.46163897	0.15385244	0.20%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Error_structure	4	2.38228087	0.59557022	0.20%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number:Category4_Error_structure	8	2.3672911	0.29591139	0.20%
Category1_soil_water_contrast:Category3_Plant_water_variance	4	2.33376969	0.58344242	0.19%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Error_structure	4	2.25223111	0.56305778	0.19%

Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	16	2.20111738	0.13756984	0.18%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number:Category4_Prior	16	2.19037021	0.13689814	0.18%
Category1_soil_water_contrast:Category4_Prior:Category4_Error_structure	4	2.13915767	0.53478942	0.18%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	64	1.9531099	0.03051734	0.16%
Category1_soil_water_contrast:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	1.90567733	0.23820967	0.16%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	1.82643197	0.057076	0.15%
Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	8	1.80356483	0.2254456	0.15%
Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	4	1.65172839	0.4129321	0.14%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	32	1.63098129	0.05096817	0.14%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	32	1.52959461	0.04779983	0.13%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	8	1.52149373	0.19018672	0.13%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	32	1.48923486	0.04653859	0.12%

Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	1.48558211	0.04642444	0.12%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number	16	1.48362735	0.09272671	0.12%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	16	1.43909649	0.08994353	0.12%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	16	1.42733929	0.08920871	0.12%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number	8	1.34639715	0.16829964	0.11%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	1.31325685	0.08207855	0.11%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	1.29984503	0.32496126	0.11%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	46	1.28648042	0.02796697	0.11%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	64	1.27383987	0.01990375	0.11%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	16	1.21381035	0.07586315	0.10%
Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	2	1.20434069	0.60217035	0.10%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	1.17795536	0.07362221	0.10%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	1.16752871	0.07297055	0.10%

Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	1.15597017	0.07224814	0.10%
Category3_Plant_water_variance:Category4_grouping_number	4	1.13910744	0.28477686	0.09%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	16	1.11190397	0.069494	0.09%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	1.05870369	0.26467592	0.09%
Category4_grouping_number:Category4_Prior:Category4_Error_structure	4	1.02409904	0.25602476	0.08%
Category1_Measurement_error:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.9919224	0.1239903	0.08%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	8	0.95893095	0.11986637	0.08%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	8	0.94555484	0.11819436	0.08%
Category4_Grouping_scheme:Category4_Error_structure	1	0.94270354	0.94270354	0.08%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	0.92875241	0.02902351	0.08%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	0.91303639	0.02853239	0.08%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	16	0.91057702	0.05691106	0.08%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	8	0.90666679	0.11333335	0.08%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Prior:Category4_Error_structure	8	0.88724486	0.11090561	0.07%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	8	0.88149984	0.11018748	0.07%

Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	0.86821125	0.0271316	0.07%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	8	0.86430095	0.10803762	0.07%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	16	0.84988048	0.05311753	0.07%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.84569533	0.05285596	0.07%
Category3_Plant_water_variance:Category4_Prior	4	0.84354936	0.21088734	0.07%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	16	0.84257242	0.05266078	0.07%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	0.83095296	0.02596728	0.07%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	4	0.82778086	0.20694521	0.07%
Category1_soil_water_contrast:Category4_Error_structure	2	0.79980462	0.39990231	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number	8	0.7947134	0.09933917	0.07%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	32	0.79403347	0.02481355	0.07%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number	8	0.79137629	0.09892204	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	32	0.76906429	0.02403326	0.06%
Category1_Measurement_error:Category4_grouping_number:Category4_Prior	8	0.76418737	0.09552342	0.06%

Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_Prior	4	0.76383165	0.19095791	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	32	0.75492039	0.02359126	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	16	0.72806212	0.04550388	0.06%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Prior	8	0.71596726	0.08949591	0.06%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	14	0.69576594	0.04969757	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme	4	0.68408489	0.17102122	0.06%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.66089171	0.04130573	0.05%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	16	0.6250045	0.03906278	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.62341182	0.07792648	0.05%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	16	0.60726462	0.03795404	0.05%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	16	0.60579103	0.03786194	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	0.60259943	0.01883123	0.05%

Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	8	0.59549898	0.07443737	0.05%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	8	0.59318254	0.07414782	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	16	0.58361168	0.03647573	0.05%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number	8	0.57865873	0.07233234	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	16	0.56951144	0.03559447	0.05%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	0.56096026	0.01753001	0.05%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	24	0.54771321	0.02282138	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	16	0.54592179	0.03412011	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme	8	0.52956635	0.06619579	0.04%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	4	0.52785601	0.131964	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	16	0.5183476	0.03239673	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	16	0.51304089	0.03206506	0.04%

Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.50996542	0.06374568	0.04%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	4	0.4931443	0.12328607	0.04%
Category4_Error_structure	1	0.4804389	0.4804389	0.04%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.46846843	0.02927928	0.04%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.45284593	0.02830287	0.04%
Category2_uptake_pattern:Category4_Grouping_scheme	2	0.44249475	0.22124737	0.04%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	8	0.43686731	0.05460841	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior	8	0.4337463	0.05421829	0.04%
Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	4	0.41697957	0.10424489	0.03%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	26	0.41302834	0.01588571	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.41137329	0.02571083	0.03%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.4016939	0.02510587	0.03%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	8	0.39773822	0.04971728	0.03%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.39754112	0.02484632	0.03%

Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	16	0.3953244	0.02470778	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	32	0.37215015	0.01162969	0.03%
Category4_grouping_number:Category4_Prior	4	0.37173414	0.09293354	0.03%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.36897953	0.02306122	0.03%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.36616518	0.02288532	0.03%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.35793472	0.04474184	0.03%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number	4	0.35367903	0.08841976	0.03%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.35207151	0.02200447	0.03%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	8	0.34655849	0.04331981	0.03%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.34335446	0.02145965	0.03%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	4	0.34129396	0.08532349	0.03%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.3394461	0.02121538	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	18	0.33874963	0.01881942	0.03%

Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	0.33855306	0.01057978	0.03%
Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	4	0.33724855	0.08431214	0.03%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	0.33644222	0.08411055	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	8	0.33546316	0.0419329	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.3332881	0.02083051	0.03%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.33144835	0.04143104	0.03%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.32950274	0.04118784	0.03%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.32878456	0.02054904	0.03%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.3256334	0.04070418	0.03%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	14	0.32465043	0.02318932	0.03%
Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	4	0.3245994	0.08114985	0.03%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	16	0.31326371	0.01957898	0.03%

Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	14	0.31051469	0.02217962	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme	8	0.30690206	0.03836276	0.03%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.30361426	0.07590357	0.03%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.30093296	0.03761662	0.03%
Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	4	0.29683956	0.07420989	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.29380734	0.03672592	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.29021403	0.01813838	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	19	0.28854249	0.01518645	0.02%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	8	0.28665709	0.03583214	0.02%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.28088273	0.03511034	0.02%
Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	8	0.27928527	0.03491066	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	8	0.27818188	0.03477273	0.02%

Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.2761201	0.01725751	0.02%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	8	0.27349813	0.03418727	0.02%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.27271619	0.06817905	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.27131745	0.01695734	0.02%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.26606892	0.01662931	0.02%
Category1_soil_water_contrast:Category4_Grouping_scheme	2	0.25658339	0.1282917	0.02%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	8	0.24849935	0.03106242	0.02%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.24729982	0.03091248	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme	4	0.24647242	0.0616181	0.02%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	0.24525574	0.06131393	0.02%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	16	0.24287571	0.01517973	0.02%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	8	0.24187205	0.03023401	0.02%

Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.24185988	0.01511624	0.02%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	8	0.23033296	0.02879162	0.02%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.21685911	0.02710739	0.02%
Category4_Grouping_scheme:Category4_Prior	2	0.21532986	0.10766493	0.02%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.21103605	0.02637951	0.02%
Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.20820283	0.02602535	0.02%
Category1_Measurement_error:Category4_Grouping_scheme	2	0.20572909	0.10286455	0.02%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	8	0.18976656	0.02372082	0.02%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme	4	0.18918447	0.04729612	0.02%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	2	0.18655851	0.09327926	0.02%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.17714244	0.02214281	0.01%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme	4	0.17469493	0.04367373	0.01%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	8	0.17226591	0.02153324	0.01%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	4	0.16978274	0.04244569	0.01%

Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_Error_structure	4	0.15915749	0.03978937	0.01%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	7	0.15394138	0.02199163	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.14993179	0.01874147	0.01%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.14067679	0.0175846	0.01%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_Error_structure	2	0.14032364	0.07016182	0.01%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_Error_structure	2	0.12566099	0.06283049	0.01%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	8	0.12409119	0.0155114	0.01%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior	4	0.12208614	0.03052154	0.01%
Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	4	0.11869033	0.02967258	0.01%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	4	0.11812996	0.02953249	0.01%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.11498553	0.01437319	0.01%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	4	0.11321412	0.02830353	0.01%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number	4	0.10553274	0.02638319	0.01%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme	4	0.09870229	0.02467557	0.01%

Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	8	0.096796	0.0120995	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.09346178	0.01168272	0.01%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	8	0.09327617	0.01165952	0.01%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	8	0.09169446	0.01146181	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	4	0.09162597	0.02290649	0.01%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.08586722	0.0107334	0.01%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.07811214	0.00976402	0.01%
Category3_Plant_water_variance:Category4_Grouping_scheme	2	0.07576434	0.03788217	0.01%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	4	0.06876025	0.01719006	0.01%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	4	0.06262632	0.01565658	0.01%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.05765356	0.01441339	0.00%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.04336038	0.0108401	0.00%
Category4_Grouping_scheme:Category4_grouping_number	2	0.03069116	0.01534558	0.00%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.02952469	0.00369059	0.00%
Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	2	0.01907751	0.00953875	0.00%

Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	4	0.01747919	0.0043698	0.00%
Category4_Grouping_scheme	1	0.00641132	0.00641132	0.00%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	2	0.00390933	0.00195466	0.00%

Table S4-Full list of main and interaction effects and their contributions to variance in posterior prediction of plant water isotopic composition uncertainty based on GLM-ANOVA analysis.

	Df	Sum.Sq	Mean.Sq	
Category4_Error_structure	1	948.642091	948.642091	32.42%
Category1_soil_water_contrast:Category4_Error_structure	2	339.825993	169.912996	11.61%
Category1_soil_water_contrast	2	291.328979	145.664489	9.95%
Category1_Measurement_error	2	248.921964	124.460982	8.51%
Category3_Plant_water_variance:Category4_Error_structure	2	117.136147	58.5680736	4.00%
Category2_uptake_pattern	2	48.0433934	24.0216967	1.64%
Category1_soil_water_contrast:Category1_Measurement_error	4	45.187288	11.296822	1.54%
Category4_Prior	2	41.4353719	20.7176859	1.42%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance	8	33.5315683	4.19144604	1.15%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance	16	32.77378	2.04836125	1.12%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Error_structure	4	32.6787983	8.16969957	1.12%
Category1_soil_water_contrast:Category2_uptake_pattern	4	32.2717563	8.06793908	1.10%
Category4_Prior:Category4_Error_structure	2	30.7615943	15.3807972	1.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	16	30.5058808	1.90661755	1.04%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance	8	29.6353369	3.70441711	1.01%
Category2_uptake_pattern:Category3_Plant_water_variance	4	27.6720244	6.9180061	0.95%

Category1_Measurement_error:Category2_uptake_pattern	4	26.5471427	6.63678568	0.91%
Category4_grouping_number:Category4_Error_structure	2	25.458342	12.729171	0.87%
Category4_grouping_number:Category4_Prior	4	25.2296847	6.30742116	0.86%
Category1_soil_water_contrast:Category4_Prior	4	24.321891	6.08047276	0.83%
Category4_grouping_number:Category4_Prior:Category4_Error_structure	4	20.7097383	5.17743456	0.71%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance	8	18.3219189	2.29023986	0.63%
Category1_soil_water_contrast:Category4_grouping_number:Category4_Error_structure	4	18.1737559	4.54343899	0.62%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Error_structure	4	15.5494516	3.88736291	0.53%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Error_structure	8	11.8898182	1.48622728	0.41%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	4	10.3616187	2.59040467	0.35%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Error_structure	4	9.73150324	2.43287581	0.33%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Error_structure	4	9.68755159	2.4218879	0.33%
Category1_Measurement_error:Category4_grouping_number:Category4_Error_structure	4	9.47799041	2.3694976	0.32%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Error_structure	8	8.81045029	1.10130629	0.30%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern	8	8.501809	1.06272612	0.29%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	8	8.21751937	1.02718992	0.28%
Category1_soil_water_contrast:Category4_grouping_number:Category4_Prior	8	7.98428165	0.99803521	0.27%

Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	32	7.80887532	0.24402735	0.27%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Prior	8	7.58315497	0.94789437	0.26%
Category4_grouping_number	2	7.39799835	3.69899918	0.25%
Category2_uptake_pattern:Category4_Error_structure	2	7.34053353	3.67026677	0.25%
Category3_Plant_water_variance	2	7.14934956	3.57467478	0.24%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number	8	6.7891072	0.8486384	0.23%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Prior	8	6.46348224	0.80793528	0.22%
Category1_soil_water_contrast:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	6.23583874	0.77947984	0.21%
Category1_Measurement_error:Category3_Plant_water_variance	4	6.1557865	1.53894663	0.21%
Category1_Measurement_error:Category4_Prior	4	6.13301624	1.53325406	0.21%
Category1_Measurement_error:Category4_Prior:Category4_Error_structure	4	6.08473347	1.52118337	0.21%
Category3_Plant_water_variance:Category4_grouping_number	4	5.96835648	1.49208912	0.20%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Error_structure	4	5.75744746	1.43936187	0.20%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Error_structure	8	5.12722283	0.64090285	0.18%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	32	4.86978436	0.15218076	0.17%
Category1_soil_water_contrast:Category4_grouping_number	4	4.71072072	1.17768018	0.16%
Category3_Plant_water_variance:Category4_Prior	4	4.61171967	1.15292992	0.16%
Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	4	4.42162586	1.10540646	0.15%

Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior	8	4.18236549	0.52279569	0.14%
Category1_soil_water_contrast:Category3_Plant_water_variance	4	4.1437309	1.03593273	0.14%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number	8	4.1398716	0.51748395	0.14%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number:Category4_Error_structure	8	3.99459417	0.49932427	0.14%
Category2_uptake_pattern:Category4_Prior	4	3.82301374	0.95575343	0.13%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number	16	3.66632894	0.22914556	0.13%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	64	3.55414435	0.05553351	0.12%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Prior:Category4_Error_structure	8	3.37246174	0.42155772	0.12%
Category2_uptake_pattern:Category4_grouping_number	4	3.29925769	0.82481442	0.11%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	16	3.19506556	0.1996916	0.11%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior	16	3.14680004	0.196675	0.11%
Category1_soil_water_contrast:Category4_Prior:Category4_Error_structure	4	2.98406513	0.74601628	0.10%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	32	2.95932974	0.09247905	0.10%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	16	2.91616633	0.1822604	0.10%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number	8	2.87087145	0.35885893	0.10%

Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number	8	2.84189022	0.35523628	0.10%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	2.81593058	0.35199132	0.10%
Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	2.76435097	0.17277194	0.09%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	16	2.69309017	0.16831814	0.09%
Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	2	2.66321123	1.33160561	0.09%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	8	2.64400926	0.33050116	0.09%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	32	2.63150978	0.08223468	0.09%
Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	4	2.39991522	0.5999788	0.08%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	16	2.39699096	0.14981194	0.08%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	2.33250012	0.14578126	0.08%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Prior	8	2.25673947	0.28209243	0.08%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior	8	2.22046532	0.27755817	0.08%
Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	8	2.20950581	0.27618823	0.08%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	46	2.1547609	0.04684263	0.07%

Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number:Category4_Prior	16	2.10085354	0.13130335	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	64	2.09857166	0.03279018	0.07%
Category4_Grouping_scheme:Category4_Error_structure	1	2.00943314	2.00943314	0.07%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	16	2.00059284	0.12503705	0.07%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	8	1.98484172	0.24810522	0.07%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	16	1.92612538	0.12038284	0.07%
Category4_Grouping_scheme:Category4_grouping_number	2	1.90843952	0.95421976	0.07%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	1.89632528	0.05926017	0.06%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	1.85210199	0.05787819	0.06%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	26	1.82301843	0.07011609	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	16	1.79330245	0.1120814	0.06%
Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	4	1.78149502	0.44537375	0.06%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	8	1.73400569	0.21675071	0.06%

Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	16	1.71605912	0.1072537	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	32	1.70762959	0.05336343	0.06%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	16	1.70403006	0.10650188	0.06%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	1.69422183	0.05294443	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior	16	1.68924997	0.10557812	0.06%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	16	1.68718958	0.10544935	0.06%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	32	1.67208587	0.05225268	0.06%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	16	1.66459488	0.10403718	0.06%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	8	1.66359493	0.20794937	0.06%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	1.63643951	0.05113874	0.06%
Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	1.55523435	0.19440429	0.05%
Category1_Measurement_error:Category4_grouping_number	4	1.55142107	0.38785527	0.05%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	32	1.53713102	0.04803535	0.05%

Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	16	1.52714548	0.09544659	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	1.50601581	0.04706299	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	1.46426326	0.04575823	0.05%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	24	1.43579206	0.05982467	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	32	1.43125514	0.04472672	0.05%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	32	1.42034512	0.04438579	0.05%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	16	1.39779908	0.08736244	0.05%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	1.37084842	0.34271211	0.05%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number	8	1.36953061	0.17119133	0.05%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_Prior	4	1.36383863	0.34095966	0.05%
Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	4	1.32565956	0.33141489	0.05%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	8	1.24172678	0.15521585	0.04%

Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	8	1.23717919	0.1546474	0.04%
Category2_uptake_pattern:Category4_grouping_number:Category4_Error_structure	4	1.23075667	0.30768917	0.04%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	8	1.22268309	0.15283539	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	1.20676213	0.03771132	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	32	1.20648924	0.03770279	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	16	1.1729539	0.07330962	0.04%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	16	1.15174018	0.07198376	0.04%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number	16	1.13105356	0.07069085	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme	4	1.11518018	0.27879505	0.04%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	1.10870299	0.27717575	0.04%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	1.10753106	0.06922069	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	32	1.10223262	0.03444477	0.04%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	1.09678561	0.0685491	0.04%

Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	16	1.08529289	0.06783081	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	32	1.07548933	0.03360904	0.04%
Category1_Measurement_error:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	1.06914719	0.1336434	0.04%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	1.06363072	0.06647692	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	1.0559122	0.06599451	0.04%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	8	1.02425372	0.12803172	0.04%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	32	0.99990929	0.03124717	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	16	0.99004752	0.06187797	0.03%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.96692371	0.12086546	0.03%
Category2_uptake_pattern:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.95773537	0.11971692	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.94507106	0.05906694	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_Error_structure	4	0.93268435	0.23317109	0.03%

Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	16	0.92145762	0.0575911	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	16	0.91601497	0.05725094	0.03%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number	8	0.86195701	0.10774463	0.03%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	16	0.86094033	0.05380877	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number	16	0.85866948	0.05366684	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	18	0.8318953	0.04621641	0.03%
Category1_Measurement_error:Category4_Grouping_scheme	2	0.81454486	0.40727243	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	16	0.80720187	0.05045012	0.03%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.77313755	0.0483211	0.03%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_Error_structure	2	0.77105635	0.38552818	0.03%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	8	0.76580587	0.09572573	0.03%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	16	0.74906062	0.04681629	0.03%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_Error_structure	2	0.73212549	0.36606275	0.03%

Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Prior	8	0.72463898	0.09057987	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.7067605	0.04417253	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.70235305	0.04389707	0.02%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	8	0.68701086	0.08587636	0.02%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.68543919	0.04283995	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.68509131	0.08563641	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.6787102	0.04241939	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	8	0.6770109	0.08462636	0.02%
Category2_uptake_pattern:Category4_grouping_number:Category4_Prior	8	0.67068996	0.08383625	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior	8	0.66805627	0.08350703	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	8	0.66134835	0.08266854	0.02%

Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	8	0.63766702	0.07970838	0.02%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.63391929	0.03961996	0.02%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	16	0.62355661	0.03897229	0.02%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	4	0.60725206	0.15181302	0.02%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Prior:Category4_Error_structure	8	0.60687543	0.07585943	0.02%
Category1_Measurement_error:Category4_grouping_number:Category4_Prior	8	0.60343383	0.07542923	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.59956775	0.03747298	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	8	0.59755855	0.07469482	0.02%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	16	0.59684591	0.03730287	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	8	0.59327529	0.07415941	0.02%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Prior	16	0.59225637	0.03701602	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.58873948	0.03679622	0.02%

Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	14	0.58661939	0.04190139	0.02%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.58607194	0.07325899	0.02%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_grouping_number:Category4_Error_structure	8	0.58345657	0.07293207	0.02%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	4	0.57885115	0.14471279	0.02%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Prior:Category4_Error_structure	8	0.57139905	0.07142488	0.02%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number	4	0.56399732	0.14099933	0.02%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	16	0.55757849	0.03484866	0.02%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.55524223	0.06940528	0.02%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.54805644	0.06850706	0.02%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	16	0.54479074	0.03404942	0.02%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.54453658	0.06806707	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme	8	0.54041739	0.06755217	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme	8	0.51371552	0.06421444	0.02%
Category2_uptake_pattern:Category4_Grouping_scheme	2	0.50144514	0.25072257	0.02%

Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.50041197	0.03127575	0.02%
Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	4	0.48205503	0.12051376	0.02%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	8	0.47895946	0.05986993	0.02%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.46450291	0.02903143	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	8	0.46444521	0.05805565	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	32	0.45203874	0.01412621	0.02%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.44866885	0.0280418	0.02%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.44835426	0.05604428	0.02%
Category4_Grouping_scheme	1	0.43568521	0.43568521	0.01%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	8	0.41648204	0.05206026	0.01%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior	4	0.41579858	0.10394965	0.01%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	0.40981419	0.10245355	0.01%

Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	16	0.40311338	0.02519459	0.01%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number	8	0.38935901	0.04866988	0.01%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	2	0.38142292	0.19071146	0.01%
Category1_soil_water_contrast:Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	16	0.35440598	0.02215037	0.01%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.34931531	0.02183221	0.01%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.31901657	0.03987707	0.01%
Category1_soil_water_contrast:Category4_Grouping_scheme	2	0.31276863	0.15638431	0.01%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	8	0.30320115	0.03790014	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.30293412	0.03786677	0.01%
Category1_soil_water_contrast:Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	19	0.29937332	0.01575649	0.01%
Category1_soil_water_contrast:Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	14	0.29741266	0.02124376	0.01%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	8	0.29073322	0.03634165	0.01%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	4	0.28593852	0.07148463	0.01%

Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	2	0.28226574	0.14113287	0.01%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	16	0.27645242	0.01727828	0.01%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	7	0.27487719	0.03926817	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number	8	0.25598514	0.03199814	0.01%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	4	0.25403326	0.06350831	0.01%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.24739216	0.03092402	0.01%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_grouping_number	4	0.2394201	0.05985502	0.01%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.23184104	0.02898013	0.01%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.22610537	0.02826317	0.01%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	14	0.21939504	0.01567107	0.01%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.21516805	0.05379201	0.01%
Category1_Measurement_error:Category4_Error_structure	2	0.19591863	0.09795931	0.01%
Category1_soil_water_contrast:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.19435648	0.04858912	0.01%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	4	0.19169287	0.04792322	0.01%

Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.18237387	0.02279673	0.01%
Category4_Grouping_scheme:Category4_Prior	2	0.18217318	0.09108659	0.01%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior	8	0.17576408	0.02197051	0.01%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	4	0.17567782	0.04391946	0.01%
Category1_Measurement_error:Category4_Grouping_scheme:Category4_grouping_number:Category4_Prior:Category4_Error_structure	8	0.17552799	0.021941	0.01%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.16383928	0.02047991	0.01%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme	4	0.15958597	0.03989649	0.01%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme	4	0.15861102	0.03965276	0.01%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior	8	0.15004327	0.01875541	0.01%
Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.14735333	0.03683833	0.01%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	8	0.14339432	0.01792429	0.00%
Category2_uptake_pattern:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	8	0.13929865	0.01741233	0.00%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme:Category4_Error_structure	4	0.13158582	0.03289646	0.00%
Category1_soil_water_contrast:Category2_uptake_pattern:Category4_Grouping_scheme	4	0.10010797	0.02502699	0.00%
Category1_Measurement_error:Category2_uptake_pattern:Category4_Grouping_scheme	4	0.07242418	0.01810604	0.00%

Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme	4	0.06703185	0.01675796	0.00%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior	4	0.05483617	0.01370904	0.00%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	2	0.04116832	0.02058416	0.00%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	4	0.03448944	0.00862236	0.00%
Category1_Measurement_error:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Error_structure	4	0.03301207	0.00825302	0.00%
Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_Prior:Category4_Error_structure	4	0.0311872	0.0077968	0.00%
Category1_soil_water_contrast:Category3_Plant_water_variance:Category4_Grouping_scheme:Category4_grouping_number:Category4_Error_structure	8	0.03101235	0.00387654	0.00%
Category3_Plant_water_variance:Category4_Grouping_scheme	2	0.00543569	0.00271785	0.00%