

TABLE S1 Incidence and spatial analysis of turnip yellows virus (TuYV) in oilseed rape crops sampled in Lincolnshire, Warwickshire and Yorkshire in the 2007-8, 2008-9 and 2009-10 crop seasons

Region	Crop season	Latitude and longitude of crop		Cultivar (where known)	TuYV incidence		Spatial analysis ^b			
					(%) ^a		autumn		spring	
					Autumn	Spring	Z-score	p-value	Z-score	p-value
Lincs	2007-8	52.8032	0.2470	Castille + Ovation	59	89***	-1.922	0.027*	-0.297	0.350
	2007-8	52.8011	0.2256	Astrid	53	47	-0.990	0.161	-0.990	0.161
	2007-8	52.7791	0.2091	Ovation	62	62	-0.114	0.455	0.531	0.298
Warks	2007-8	52.1916	-1.4526	Lioness	14	53***	-0.295	0.384	-2.177	0.015*
	2007-8	52.1883	-1.4593	Lioness	18	64***	-0.874	0.191	0.555	0.290
	2007-8	52.2029	-1.4494	Lioness	50	88***	-0.596	0.276	-0.132	0.448
Yorks	2007-8	54.0398	-1.3287	Lioness	42	74***	0.043	0.483	-1.032	0.151
	2007-8	54.0113	-1.3635	NK Bravour	8	4	-0.207	0.418	0.220	0.413
	2007-8	53.8402	-1.3507	Astrid	24	20	-0.823	0.206	-0.073	0.471
Lincs	2008-9	52.8101	0.2235	Astrid + Castille	7	16*	-0.066	0.474	0.112	0.456
	2008-9	52.7989	0.2305	Astrid	10	9	-0.325	0.373	-0.207	0.418
	2008-9	52.7926	0.2267	Astrid	21	5***	-0.822	0.206	0.200	0.421
Warks	2008-9	52.1754	-1.4515	Astrid	7	13	-0.217	0.414	0.291	0.386
	2008-9	52.1717	-1.4583	Astrid	2	24***	0.268	0.395	-1.193	0.119
	2008-9	52.2010	-1.4469	Astrid	0	0	n.a.	n.a.	n.a.	n.a.
Yorks	2008-9	54.0404	-1.3254	-	1	6	0.153	0.439	0.271	0.393
	2008-9	54.0262	-1.3580	-	4	2	0.033	0.487	0.240	0.406
	2008-9	53.8536	-1.3544	-	2	3	-0.268	0.395	-0.101	0.460
Lincs	2009-10	52.8105	0.2177	Ovation	100	99	n.d.	n.d.	0.153	0.439
	2009-10	52.7957	0.2435	PR46W21	86	86	0.460	0.323	-0.114	0.454
	2009-10	52.8029	0.2202	Cabernet	96	97	-0.342	0.367	0.323	0.374
Warks	2009-10	52.2005	-1.4385	Astrid	50	59	0.447	0.328	-0.728	0.234
	2009-10	52.2021	-1.4387	Astrid	55	59	-1.192	0.117	0.561	0.288
	2009-10	52.1803	-1.4545	Astrid	18	18	-0.017	0.494	0.384	0.351
Yorks	2009-10	54.0145	-1.2926	-	18	22	-0.262	0.397	0.518	0.303
	2009-10	54.0420	-1.3270	-	5	6	-0.017	0.493	-0.208	0.418
	2009-10	53.8422	-1.3504	Astrid	10	39***	0.217	0.414	-1.076	0.141

^a Autumn and spring incidences of TuYV were compared by a two-sample binomial test.

^b Rook's case connection of Black-White join-count statistic was used to test for the spatial autocorrelation of the TuYV-infected plants in each of the 27 oilseed rape fields, where possible.

* Significant at $P < 0.05$,

*** Significant at $P < 0.001$

n.a. = not applicable because the virus incidence was zero.

n.d. = not determined because the virus incidence was 100%.