UK Lineages report

This report gives summaries of UK specific lineages for week 2020-07-03. There are time lags due to batching, curation and analysis, the most recently sampled sequence is 2020-06-28. The analysis (eg time since last sample) is therefore undertaken from this date. 27611 sequences in the UK have been included in this analysis. 1167 lineages have been recorded, 565 of which only contain one sequence.

A few notes: the size of a lineage may be due to a low amount of transmission of this lineage, but it is likely also that it just hasn't been sampled as frequently, especially for newer lineages. It's also important to realise that these lineages are *estimates* of how we think the virus is spreading in the UK after being introduced from abroad, as the low evolutionary rate of the virus makes it difficult to separate lineages with certainty.

The minimum number of introductions is 937 and the maximum is 10919

Sequences which were replicates or too error-prone were removed from this analysis.

893 are lineages which only contained five sequences or fewer, and so have been left out of visualisation in the interests of clarity

Furthermore, those sequences which haven't been sampled in the last month are not shown.

Of the 66 that remain: 43 are pending extinction, ie last seen three weeks ago. 16 lineages have gone quiet, ie haven't been seen this week. 3 lineages have reactivated. 4 lineages have been continuously circulating.

The following table contains information about the ten largest lineages lineages and the number of sequences the dataset. Information about other lineages is found in the appendix, along with the raw data for all of the other figures.

Each entry is the count of sequences from each lineage in each country, with the percentage of the total sequences from that lineage that this count represents.

"Activity score" is calculated by taking the average gap between sampling for each lineage, and dividing it by the number of days since the lineage was last sampled. Therefore the higher the number, the more active the lineage is. If the score is above 1, then it has been sampled *more* recently than expected given its average gap size. We might interpret this as an increase in activity. If the score is below 1, it has been sampled *less* recently than expect given its average gap size, so we might interpret this as a decrease in activity.

The global lineages are correct as of the data release on 2020-05-19

It is written to "summary_files" as "lineage_summary.tsv" for further use, and the full list of lineages is available in the same directory as "all_lineages.csv"

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK5	6696 (77.34%)	1168 (13.49%)	435 (5.02%)	359 (4.15%)	Feb-16, Jun-27	8658	B.1.1.16, B.1.1.p12, B.1.1.4, B.1.1.p16, B.1.1.10, B.1.1.14, B.1.1.13, B.1.1.p11, B.1.1.p15, B.1.1.2, B.1.1.5, B.1.1, B.1.1.3, B.1.1.1	1	0.0152
UK107	1293 (91.44%)	61 (4.31%)	46 (3.25%)	14 (0.99%)	Feb-09, Jun-02	1414	B, B.2, B.2.5, B.2.1	26	0.0031
UK42	794 (58.0%)	368 (26.88%)	205 (14.97%)	2 (0.15%)	Feb-24, Jun-21	1369	B.1.35, B.1.72, B.1.p11, B.1.5, B.1.p73, B.1, B.1.71	7	0.0123
UK36	68 (11.2%)	1 (0.16%)	536 (88.3%)	2 (0.33%)	Mar-18, Jun-06	607	B.1	22	0.006

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK5676	362 (63.4%)	54 (9.46%)	150 (26.27%)	5 (0.88%)	Feb-26, May-27	571	B.2	32	0.005
UK246	298 (53.6%)	78 (14.03%)	180 (32.37%)	0 (0%)	Mar-09, Jun-18	556	B.1.p11, B.1	10	0.0182
UK199	260 (47.62%)	55 (10.07%)	227 (41.58%)	4 (0.73%)	Feb-26, Jun-22	546	B.1.5, B.1.5.5, B.1, B.1.p73	6	0.0358
UK2913	387 (72.74%)	18 (3.38%)	110 (20.68%)	17 (3.2%)	Mar-07, Jun-16	532	B.1.p11, B.1	12	0.0159
UK61	107 (20.19%)	419 (79.06%)	3 (0.57%)	1 (0.19%)	Feb-23, May-27	530	B, B.3	32	0.0056
UK5098	6 (1.36%)	1 (0.23%)	433 (98.41%)	0 (0%)	Mar-01, Jun-05	440	B.1.8, B.1, B.1.p73	23	0.0095

These data is represented in the figure one. Note that the number of sequences is likely to be due more to differing sampling efforts in different regions, rather than genuine differences in numbers of cases.

The raw data for this bar chart are in the table above.
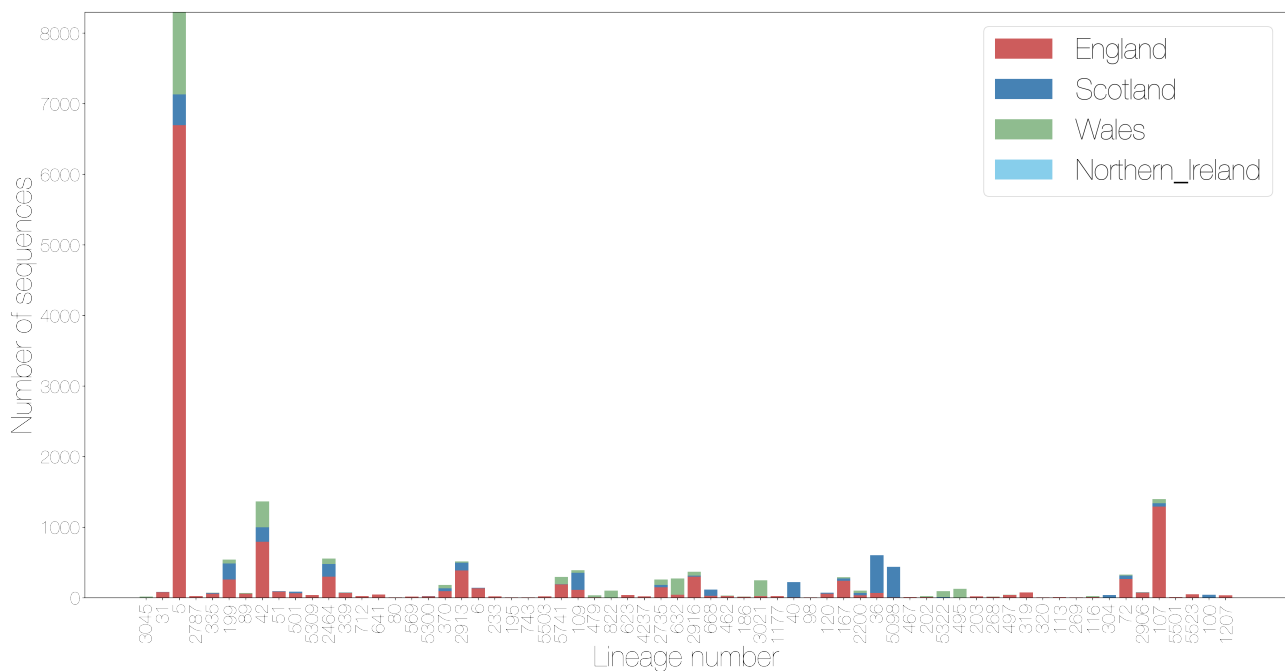
Figure 1: Number of sequences sampled in a lineage by country

Different sequencing centres have different delays in turn around from receipt of samples to submission of

sequence data. This will affect all of the figures shown after this if lineages have geographical variation, as some regions have less up to date data.
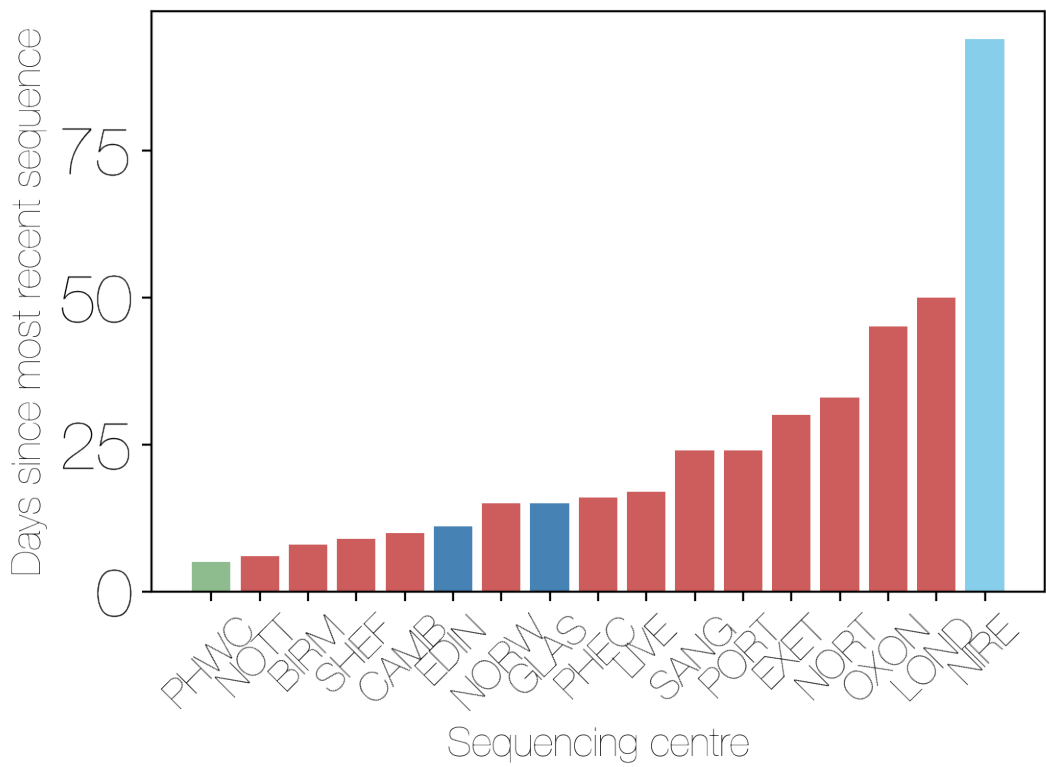
Figure 2: Lag since the most recent sequence from each sequencing centre to most current date

The relative growth and decline of the ten most sampled lineages in terms of number of counties they are present in is shown in figure three.
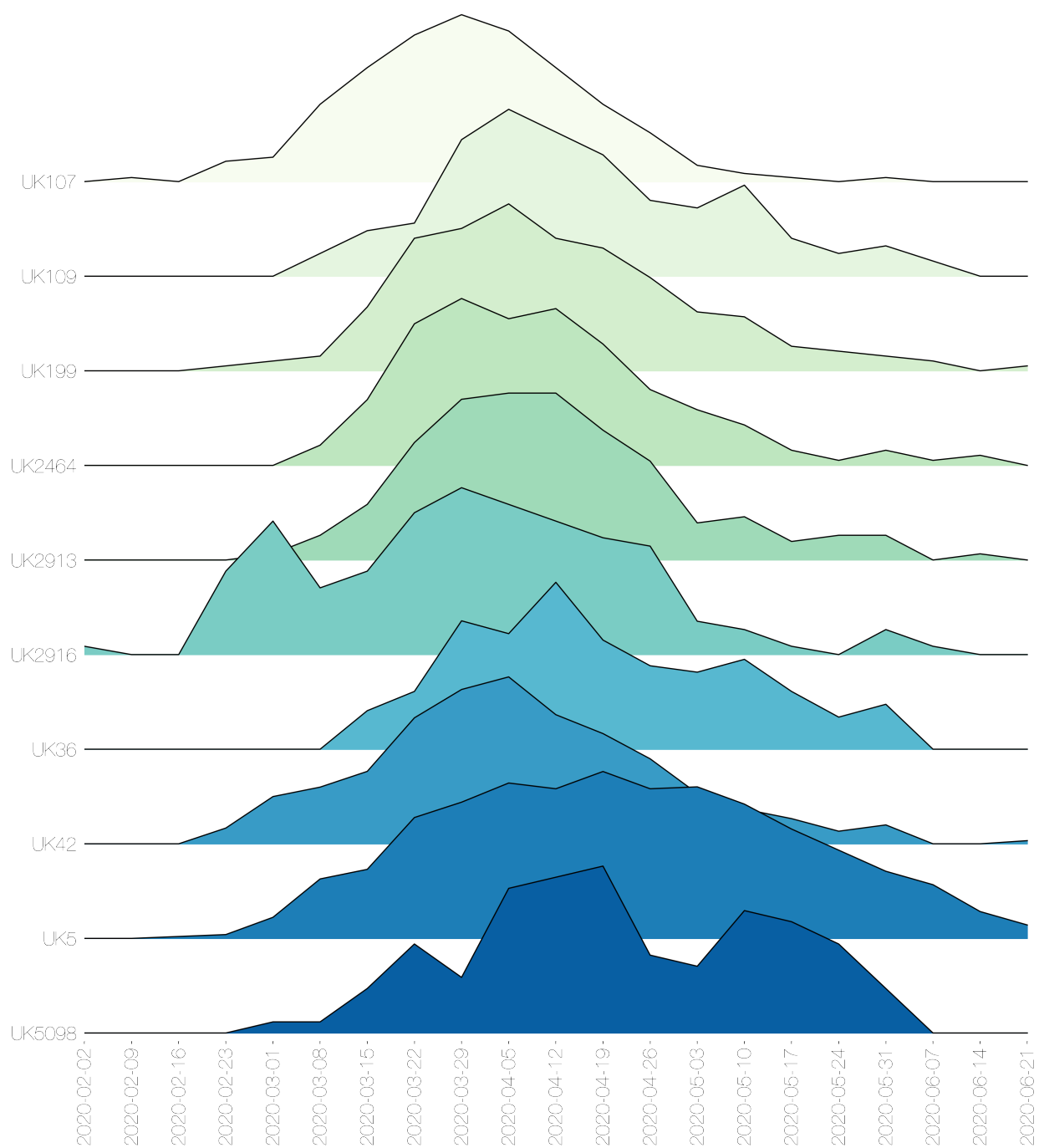
Figure 3: Lineages by number of adm2 regions present by epiweek

The growth and decline of diversity of lineages over time for each country is shown in the ridge plot in figure four. This is represented by the Shannon Diversity, calculated using the number of sequences from each country from each lineage.

Figure 4: Shannon diversity of lineages in each adm1 region

These lineages are shown on the timeline. Each line represents the length of the cluster, from oldest to most recent sampling date. The dots are sized by the number of sequences taken on that date, and again are colour coded by country. The raw data has been written to a summary file.
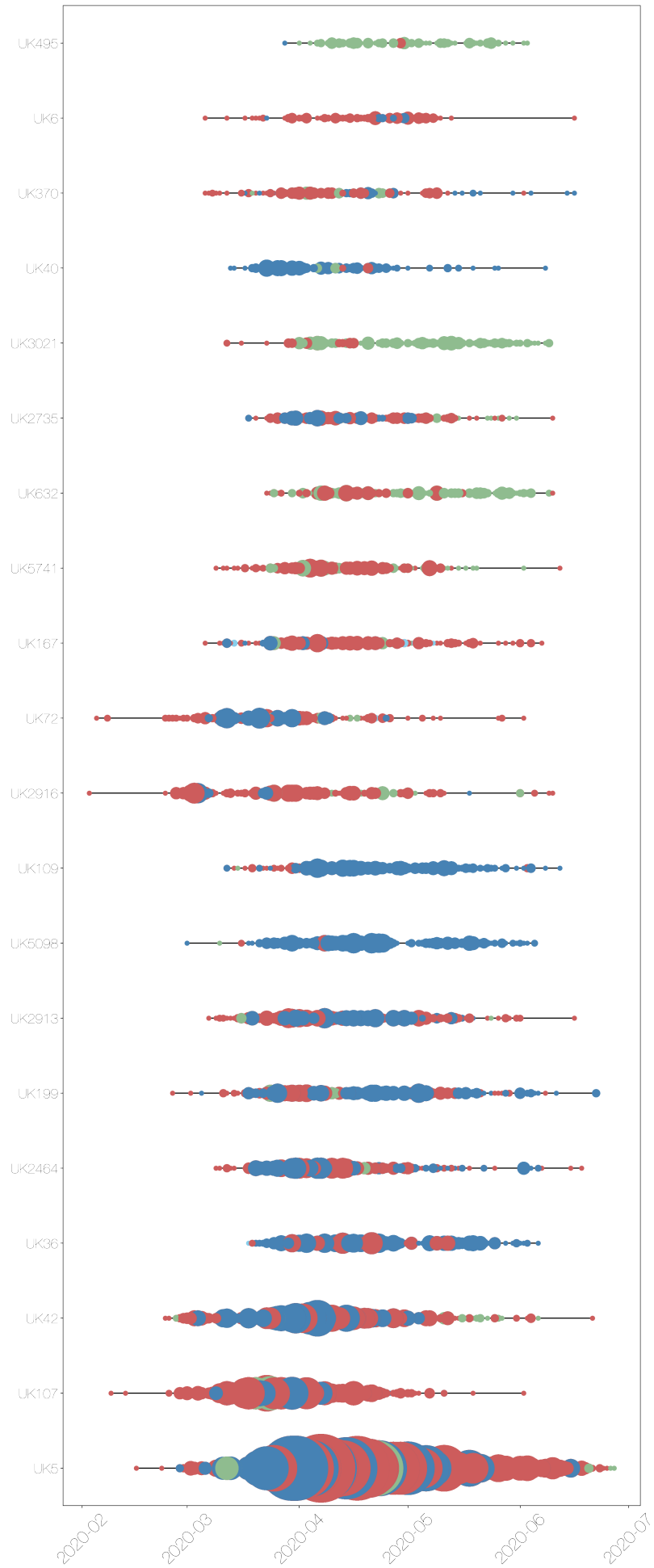
Figure 5: Timeline of lineages, sized by number of sequences from each country.

The date of first sequence in the cluster is shown in figure five for every cluster with date information.
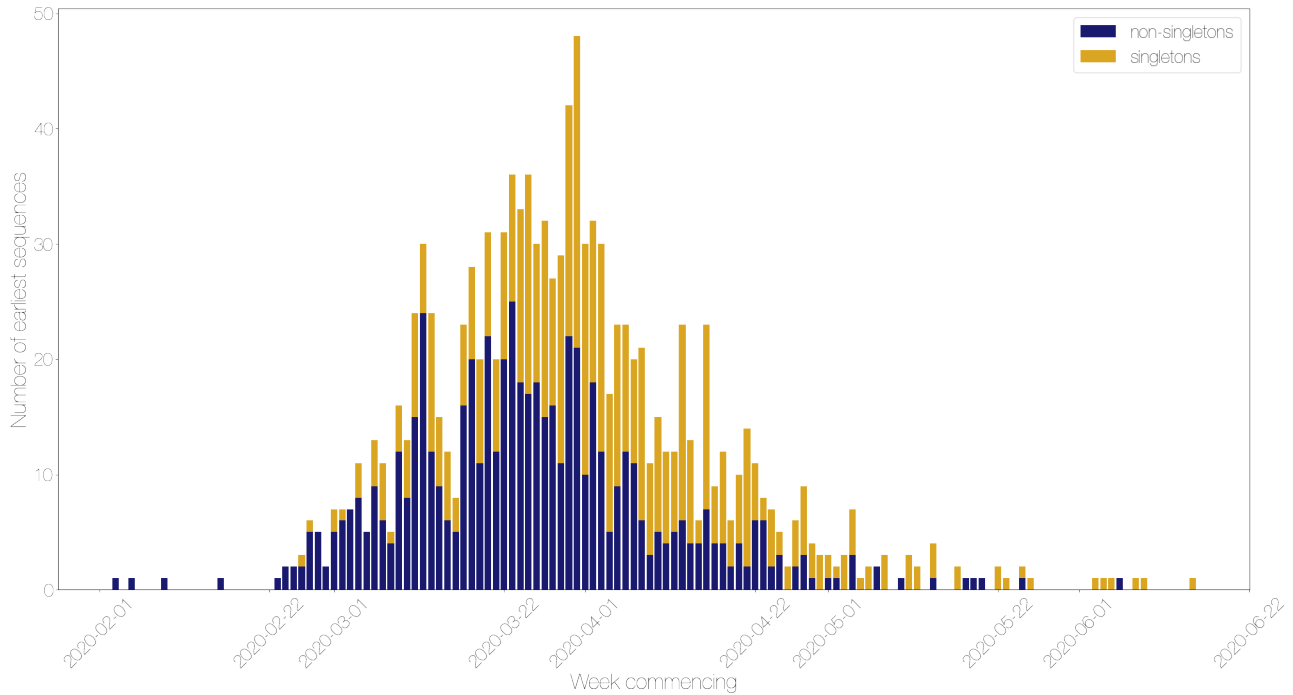
Figure 6: Lineage starts per week, split by singletons and non-singletons

For comparison, here is a plot of the day that every sequence was taken, coloured by country. Note that sequences without dates were not included.
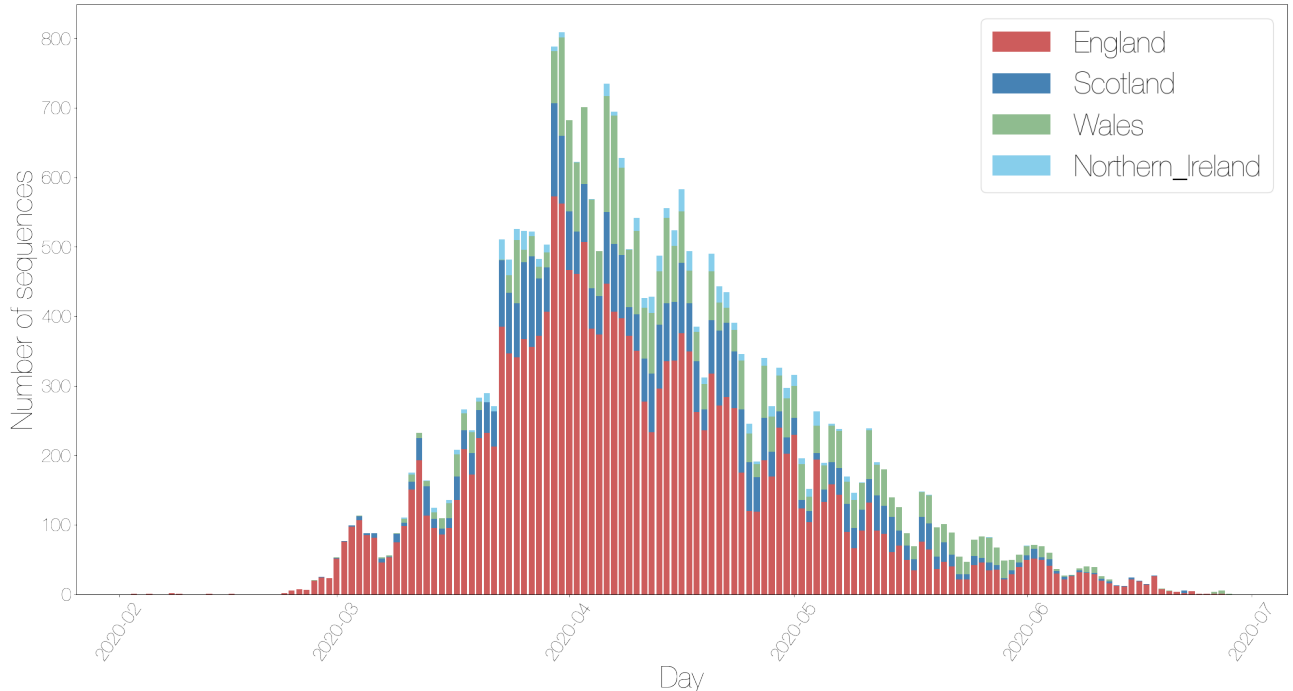
Figure 7: Sequences taken on each day by country

The map shows the number of sequences sampled in each admin2 region in the UK. The colour scale is the same for all four countries, but with different underlying base colours.

Number of sequences
- 0-10
- 10-50
- 50-100
- 100-150
- 150-200
- 300-400
- 400-500
- >500
- No sequences yet
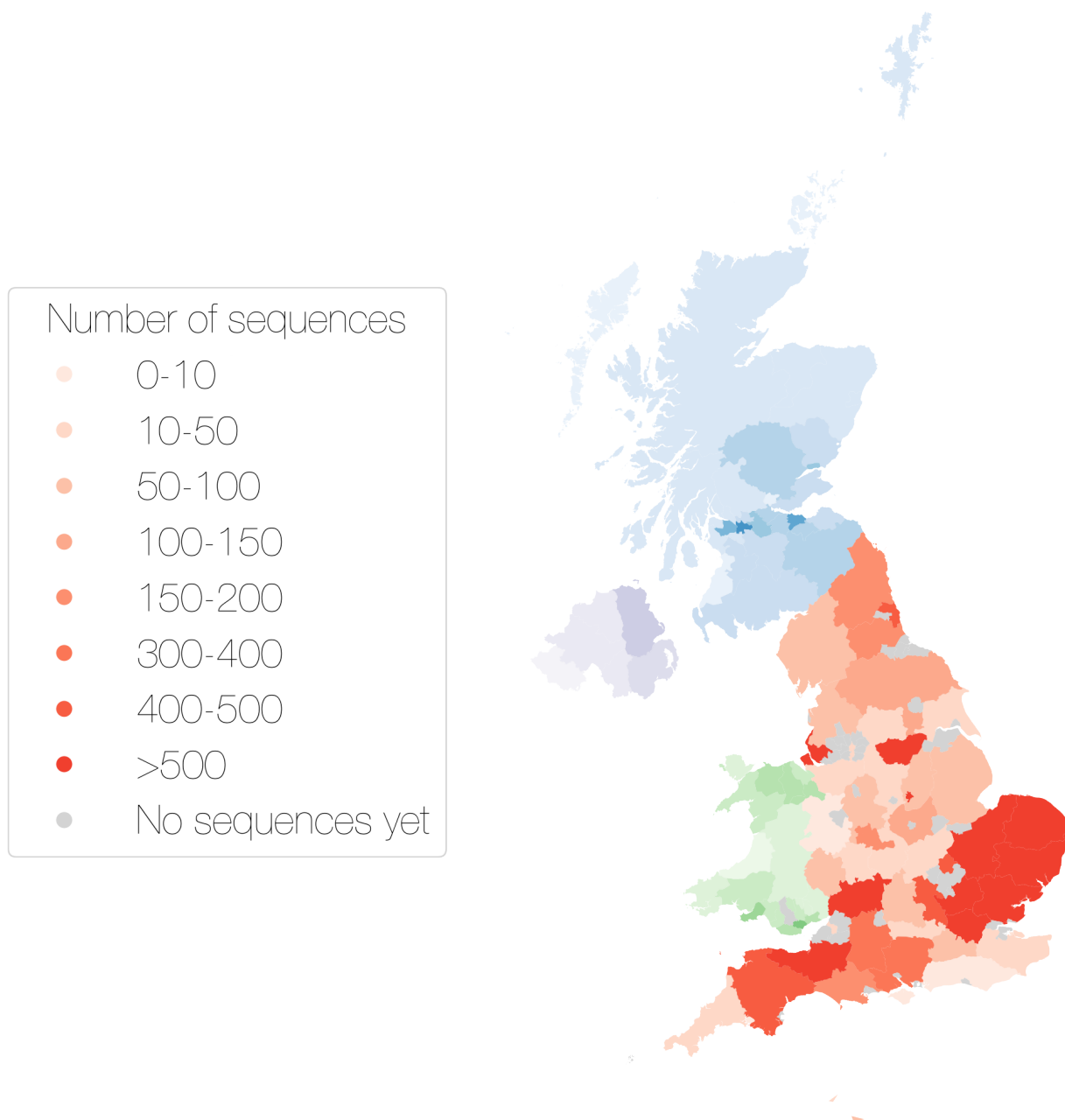
Figure 8: Map showing the number of sequences sampled by adm2 region

There are some sequences with locations that are not matched to real Admin2 regions, some manual curation required.

Other results modules for UK lineage analysis can be added in here if required.

Appendix

The plot below shows the number of sequences from each country that don't have specific enough location data to plot on the map.
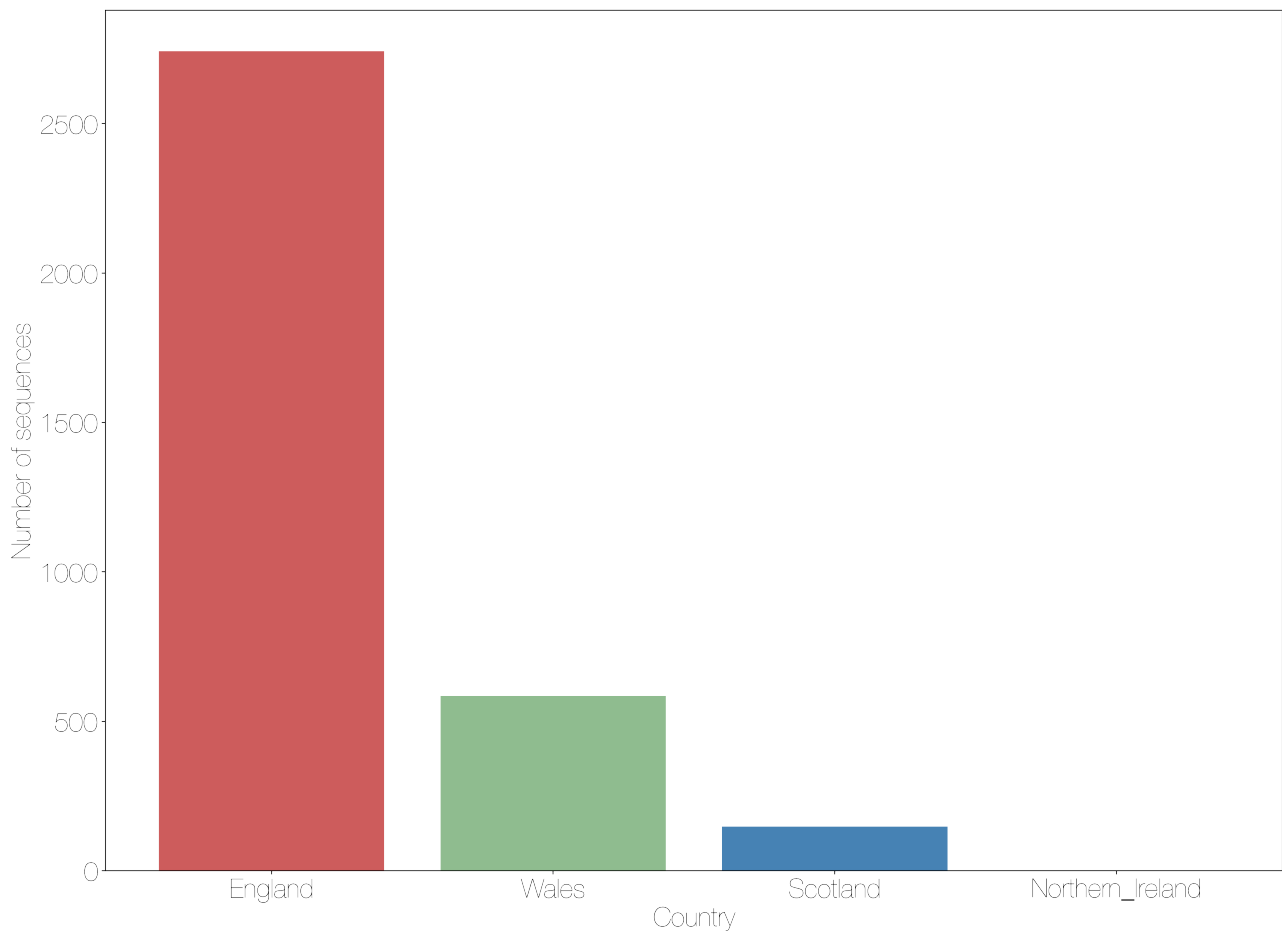
Below are the raw data tables for each of the figures in the report.

Table S1 Description of all lineages that have been circulating in the last month, and have more than 5 sequences.

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK5	6696 (77.34%)	1168 (13.49%)	435 (5.02%)	359 (4.15%)	Feb-16, Jun-27	8658	B.1.1.16, B.1.1.p12, B.1.1.4, B.1.1.p16, B.1.1.10, B.1.1.14, B.1.1.13, B.1.1.p11, B.1.1.p15, B.1.1.2, B.1.1.5, B.1.1, B.1.1.3, B.1.1.1	1	0.0152
UK107	1293 (91.44%)	61 (4.31%)	46 (3.25%)	14 (0.99%)	Feb-09, Jun-02	1414	B, B.2, B.2.5, B.2.1	26	0.0031
UK42	794 (58.0%)	368 (26.88%)	205 (14.97%)	2 (0.15%)	Feb-24, Jun-21	1369	B.1.35, B.1.72, B.1.p11, B.1.5, B.1.p73, B.1, B.1.71	7	0.0123

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK36	68 (11.2%)	1 (0.16%)	536 (88.3%)	2 (0.33%)	Mar-18, Jun-06	607	B.1	22	0.006
UK567	362 (63.4%)	54 (9.46%)	150 (26.27%)	5 (0.88%)	Feb-26, May-27	571	B.2	32	0.005
UK246	298 (53.6%)	78 (14.03%)	180 (32.37%)	0 (0%)	Mar-09, Jun-18	556	B.1.p11, B.1	10	0.0182
UK199	260 (47.62%)	55 (10.07%)	227 (41.58%)	4 (0.73%)	Feb-26, Jun-22	546	B.1.5, B.1.5.5, B.1, B.1.p73	6	0.0358
UK291	387 (72.74%)	18 (3.38%)	110 (20.68%)	17 (3.2%)	Mar-07, Jun-16	532	B.1.p11, B.1	12	0.0159
UK61	107 (20.19%)	419 (79.06%)	3 (0.57%)	1 (0.19%)	Feb-23, May-27	530	B, B.3	32	0.0056
UK509	6 (1.36%)	1 (0.23%)	433 (98.41%)	0 (0%)	Mar-01, Jun-05	440	B.1.8, B.1, B.1.p73	23	0.0095
UK109	111 (27.89%)	35 (8.79%)	244 (61.31%)	8 (2.01%)	Mar-12, Jun-12	398	B.1.5, B.1.5.5	16	0.0145
UK2916	301 (79.84%)	54 (14.32%)	13 (3.45%)	9 (2.39%)	Feb-03, Jun-10	377	B.1	18	0.0189
UK72	265 (77.71%)	15 (4.4%)	49 (14.37%)	12 (3.52%)	Feb-05, Jun-02	341	B.2.2, B	26	0.0133
UK167	240 (75.24%)	21 (6.58%)	32 (10.03%)	26 (8.15%)	Mar-06, Jun-07	319	B.1.66, B.1	21	0.0139
UK574	191 (64.53%)	104 (35.14%)	1 (0.34%)	0 (0%)	Mar-09, Jun-12	296	B.1.44, B.1	16	0.0201
UK632	42 (15.33%)	232 (84.67%)	0 (0%)	0 (0%)	Mar-23, Jun-10	274	B.1.1	18	0.0161

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK2735	150 (55.15%)	76 (27.94%)	32 (11.76%)	14 (5.15%)	Mar-18, Jun-10	272	B.1.1	18	0.0172
UK302	23 (9.27%)	225 (90.73%)	0 (0%)	0 (0%)	Mar-12, Jun-09	248	B.1	19	0.019
UK9	226 (99.56%)	1 (0.44%)	0 (0%)	0 (0%)	Mar-09, May-15	227	B.1.13	44	0.0067
UK40	6 (2.69%)	2 (0.9%)	215 (96.41%)	0 (0%)	Mar-13, Jun-08	223	B.16, B	20	0.0196
UK556	169 (84.5%)	23 (11.5%)	7 (3.5%)	1 (0.5%)	Feb-25, May-24	200	B.2.2, B.2	35	0.0128
UK15	141 (73.82%)	11 (5.76%)	36 (18.85%)	3 (1.57%)	Feb-27, May-06	191	B.1.1	53	0.0069
UK370	93 (48.69%)	50 (26.18%)	40 (20.94%)	8 (4.19%)	Mar-06, Jun-16	191	B.1.1.10	12	0.0447
UK240	169 (91.85%)	2 (1.09%)	13 (7.07%)	0 (0%)	Feb-25, May-27	184	B, B.2, B.2.5, B.2.1	32	0.0157
UK39	3 (2.03%)	0 (0%)	145 (97.97%)	0 (0%)	Mar-12, May-29	148	A.2	30	0.0177
UK6	135 (96.43%)	0 (0%)	5 (3.57%)	0 (0%)	Mar-06, Jun-16	140	B.1	12	0.0612
UK63	128 (95.52%)	2 (1.49%)	4 (2.99%)	0 (0%)	Mar-18, May-10	134	B.1.1	49	0.0081
UK4	124 (95.38%)	2 (1.54%)	3 (2.31%)	1 (0.77%)	Feb-28, Apr-29	130	B	60	0.0079
UK494	125 (97.66%)	1 (0.78%)	2 (1.56%)	0 (0%)	Mar-19, May-05	128	B.1.p11, B.1	54	0.0069

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK495	1 (0.79%)	124 (98.41%)	1 (0.79%)	0 (0%)	Mar-28, Jun-03	126	B.1.p11	25	0.0214
UK66	105 (85.37%)	0 (0%)	17 (13.82%)	1 (0.81%)	Mar-18, May-20	123	B.1.1.8	39	0.0132
UK668	28 (24.14%)	1 (0.86%)	87 (75.0%)	0 (0%)	Mar-20, Jun-10	116	B.1	18	0.0396
UK220	37 (34.26%)	35 (32.41%)	30 (27.78%)	6 (5.56%)	Feb-28, Jun-06	108	B.1.5, B.1.5.6	22	0.0421
UK605	24 (22.22%)	79 (73.15%)	4 (3.7%)	1 (0.93%)	Mar-17, May-24	108	B.1.1, B.1.1.10	35	0.0182
UK822	1 (0.97%)	102 (99.03%)	0 (0%)	0 (0%)	Apr-14, Jun-11	103	B.1	17	0.0334
UK518	93 (92.08%)	4 (3.96%)	0 (0%)	4 (3.96%)	Mar-07, May-09	101	B.1.1.7	50	0.0126
UK28	99 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-13, May-08	99	B.1.1.10	51	0.0112
UK601	23 (23.47%)	0 (0%)	9 (9.18%)	66 (67.35%)	Mar-11, May-11	98	B.10	48	0.0131
UK51	88 (91.67%)	0 (0%)	7 (7.29%)	1 (1.04%)	Mar-21, Jun-20	96	B.1.36	8	0.1197
UK532	2 (2.11%)	86 (90.53%)	7 (7.37%)	0 (0%)	Mar-22, Jun-04	95	B.1.1	24	0.0328
UK77	88 (95.65%)	4 (4.35%)	0 (0%)	0 (0%)	Mar-11, May-20	92	B.2	39	0.0197
UK549	72 (79.12%)	7 (7.69%)	12 (13.19%)	0 (0%)	Mar-06, May-28	91	B, B.2	31	0.0297

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK501	66 (75.86%)	1 (1.15%)	20 (22.99%)	0 (0%)	Mar-11, Jun-18	87	B.1	10	0.1151
UK829	84 (98.82%)	0 (0%)	1 (1.18%)	0 (0%)	Mar-03, Apr-29	85	B.2.5	60	0.0113
UK31	78 (95.12%)	0 (0%)	4 (4.88%)	0 (0%)	Mar-12, Jun-27	82	B.3	1	1.321
UK290	72 (92.31%)	2 (2.56%)	4 (5.13%)	0 (0%)	Mar-03, Jun-02	78	B.1	26	0.0455
UK319	77 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-28, Jun-03	77	B.1	25	0.0353
UK339	70 (92.11%)	4 (5.26%)	1 (1.32%)	1 (1.32%)	Mar-09, Jun-18	76	B.3	10	0.1347
UK384	70 (95.89%)	1 (1.37%)	2 (2.74%)	0 (0%)	Feb-28, Apr-23	73	B.2, B.2.1	66	0.0116
UK120	58 (79.45%)	0 (0%)	15 (20.55%)	0 (0%)	Feb-27, Jun-07	73	B.14, B	21	0.0668
UK86	9 (12.68%)	61 (85.92%)	1 (1.41%)	0 (0%)	Mar-05, May-30	71	B.1	29	0.0424
UK335	58 (81.69%)	1 (1.41%)	12 (16.9%)	0 (0%)	Mar-07, Jun-22	71	B.1.1	6	0.2548
UK607	58 (82.86%)	12 (17.14%)	0 (0%)	0 (0%)	Mar-02, May-18	70	B	41	0.0272
UK89	58 (82.86%)	12 (17.14%)	0 (0%)	0 (0%)	Mar-21, Jun-22	70	B.1.1, B.1.1.9	6	0.2246
UK37	67 (97.1%)	1 (1.45%)	1 (1.45%)	0 (0%)	Mar-17, May-04	69	B.1, B.1.30	55	0.0128

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK274	63 (95.45%)	2 (3.03%)	1 (1.52%)	0 (0%)	Mar-06, May-19	66	B, B.3	40	0.0285
UK13	64 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-13, May-21	64	B.1.1	38	0.0288
UK509	63 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-07, May-29	63	B.1.1	30	0.028
UK476	56 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-14, May-06	56	B.1.1	53	0.0182
UK371	54 (98.18%)	1 (1.82%)	0 (0%)	0 (0%)	Mar-12, May-06	55	B.1.1	53	0.0192
UK376	55 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-11, May-03	55	B.1.1.9	56	0.0175
UK275	44 (83.02%)	8 (15.09%)	1 (1.89%)	0 (0%)	Mar-09, Apr-27	53	B.1.13	62	0.0152
UK187	5 (9.62%)	29 (55.77%)	9 (17.31%)	9 (17.31%)	Mar-21, Apr-30	52	B.1	59	0.0133
UK448	50 (98.04%)	1 (1.96%)	0 (0%)	0 (0%)	Apr-04, May-26	51	B.1.1	33	0.0315
UK552	51 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-16, Jun-01	51	B.1	27	0.0341
UK517	47 (94.0%)	1 (2.0%)	2 (4.0%)	0 (0%)	Mar-02, Apr-30	50	B.1.1	59	0.0204
UK641	47 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-25, Jun-17	47	B.1.1	11	0.166
UK276	46 (97.87%)	0 (0%)	1 (2.13%)	0 (0%)	Mar-15, May-13	47	B.1.1	46	0.0279

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK478	46 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-20, May-19	46	B.1.1	40	0.0333
UK497	39 (88.64%)	4 (9.09%)	1 (2.27%)	0 (0%)	Mar-13, Jun-03	44	A.2	25	0.0763
UK100	0 (0%)	0 (0%)	43 (100.0%)	0 (0%)	Mar-22, Jun-01	43	B.1.5, B.1	27	0.0626
UK64	31 (72.09%)	12 (27.91%)	0 (0%)	0 (0%)	Mar-12, May-05	43	B.1	54	0.0238
UK44	3 (7.14%)	0 (0%)	37 (88.1%)	2 (4.76%)	Mar-17, Apr-23	42	B	66	0.0137
UK530	38 (92.68%)	3 (7.32%)	0 (0%)	0 (0%)	Mar-20, Jun-18	41	B.1.1, B.1.1.10	10	0.225
UK312	41 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-06, May-19	41	B.1.1	40	0.0269
UK623	40 (100.0%)	0 (0%)	0 (0%)	0 (0%)	May-10, Jun-11	40	B.1.1	17	0.0483
UK12	39 (97.5%)	0 (0%)	0 (0%)	1 (2.5%)	Mar-12, May-07	40	B.1.p11, B.1	52	0.0276
UK304	0 (0%)	0 (0%)	40 (100.0%)	0 (0%)	Apr-16, Jun-02	40	B.1.1.14	26	0.0464
UK131	34 (89.47%)	4 (10.53%)	0 (0%)	0 (0%)	Mar-11, Apr-14	38	B.15	75	0.0123
UK120	37 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-23, Jun-01	37	B.1.1	27	0.072
UK179	17 (45.95%)	20 (54.05%)	0 (0%)	0 (0%)	Mar-17, May-07	37	B.1.1, B.1.1.p11	52	0.0272

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UK119	29 (78.38%)	7 (18.92%)	1 (2.7%)	0 (0%)	Mar-11, Apr-24	37	B.2.5	65	0.0188
UK554	31 (86.11%)	0 (0%)	3 (8.33%)	2 (5.56%)	Mar-04, May-18	36	B.2.2	41	0.0523
UK27	31 (86.11%)	4 (11.11%)	1 (2.78%)	0 (0%)	Mar-05, May-21	36	B.1.1	38	0.0579
UK14	3 (8.33%)	0 (0%)	33 (91.67%)	0 (0%)	Mar-12, May-21	36	B	38	0.0526
UK79	35 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-24, May-05	35	B.1	54	0.0229
UK636	34 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-16, May-25	34	B.1.1	34	0.0624
UK43	1 (2.94%)	0 (0%)	33 (97.06%)	0 (0%)	Mar-12, Apr-26	34	A.5	63	0.0216
UK479	6 (17.65%)	28 (82.35%)	0 (0%)	0 (0%)	Apr-05, Jun-12	34	B.1.1	16	0.1288
UK87	0 (0%)	0 (0%)	33 (100.0%)	0 (0%)	Mar-13, Apr-24	33	B.1.70	65	0.0202
UK462	25 (78.12%)	7 (21.88%)	0 (0%)	0 (0%)	Apr-01, Jun-09	32	B.1	19	0.1171
UK404	32 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-01, Apr-19	32	B.1	70	0.0226
UK564	29 (90.62%)	2 (6.25%)	1 (3.12%)	0 (0%)	Mar-15, May-04	32	B.2.6	55	0.0293
UK18	31 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-11, Apr-14	31	B.1.1.7	75	0.0151

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK241	31 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-22, Apr-16	31	B.1.5.3	73	0.0114
UK21	0 (0%)	0 (0%)	31 (100.0%)	0 (0%)	Mar-18, May-23	31	B.1.40	36	0.0611
UK23	30 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-18, May-09	30	B.9	50	0.0359
UK166	5 (16.67%)	0 (0%)	25 (83.33%)	0 (0%)	Mar-30, May-18	30	B.1.9, B.1.p9	41	0.0412
UK567	4 (13.33%)	20 (66.67%)	5 (16.67%)	1 (3.33%)	Mar-20, May-15	30	B.2.2	44	0.0439
UK158	29 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-23, Apr-24	29	B.1.1	65	0.0176
UK482	2 (6.9%)	0 (0%)	0 (0%)	27 (93.1%)	Apr-03, May-05	29	B.1.1	54	0.0212
UK172	27 (96.43%)	1 (3.57%)	0 (0%)	0 (0%)	Mar-19, May-08	28	B.1	51	0.0363
UK101	26 (96.3%)	0 (0%)	1 (3.7%)	0 (0%)	Mar-21, Apr-25	27	B.1.5	64	0.021
UK46	25 (92.59%)	1 (3.7%)	1 (3.7%)	0 (0%)	Mar-02, May-08	27	B.2.1	51	0.0505
UK94	26 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-12, Apr-19	26	B.2, B.2.1	70	0.0217
UK317	11 (42.31%)	12 (46.15%)	3 (11.54%)	0 (0%)	Mar-13, Apr-20	26	B.3	69	0.022
UK615	26 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-15, May-15	26	B.1.1	44	0.0555

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK600	4 (15.38%)	22 (84.62%)	0 (0%)	0 (0%)	Apr-01, May-26	26	B.1.1	33	0.0667
UK173	26 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-14, Apr-20	26	B	69	0.0214
UK449	0 (0%)	0 (0%)	26 (100.0%)	0 (0%)	Apr-23, May-19	26	B.1	40	0.026
UK117	25 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-22, Jun-09	25	B.1.1	19	0.1053
UK202	10 (40.0%)	14 (56.0%)	1 (4.0%)	0 (0%)	Mar-10, Jun-04	25	B.1.1	24	0.1493
UK47	20 (80.0%)	5 (20.0%)	0 (0%)	0 (0%)	Mar-17, May-18	25	B.1.1	41	0.063
UK684	24 (96.0%)	1 (4.0%)	0 (0%)	0 (0%)	Apr-08, May-21	25	B.1	38	0.0471
UK116	9 (36.0%)	16 (64.0%)	0 (0%)	0 (0%)	Mar-24, Jun-02	25	B.1	26	0.1122
UK326	24 (96.0%)	0 (0%)	1 (4.0%)	0 (0%)	Mar-22, May-22	25	B.1.1.10	37	0.0687
UK617	25 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-29, Apr-28	25	B.1.1	61	0.0205
UK161	21 (84.0%)	4 (16.0%)	0 (0%)	0 (0%)	Mar-10, May-25	25	B.1.1	34	0.0931
UK712	24 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-08, Jun-18	24	B.1.5, B.1	10	0.3087
UK278	23 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-07, Jun-26	23	B.1.1	2	1.8182

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK5300	22 (95.65%)	0 (0%)	1 (4.35%)	0 (0%)	Apr-17, Jun-16	23	B.1.1	12	0.2273
UK204	23 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-17, May-09	23	B.1	50	0.0482
UK58	6 (26.09%)	0 (0%)	17 (73.91%)	0 (0%)	Mar-12, Apr-24	23	B.1	65	0.0301
UK423	22 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-28, Jun-10	22	B.1.1	18	0.1958
UK5503	21 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-20, Jun-12	21	B.1	16	0.2625
UK329	21 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-17, Apr-26	21	B.1.34, B.1	63	0.0317
UK203	20 (95.24%)	1 (4.76%)	0 (0%)	0 (0%)	Mar-22, Jun-03	21	B.1.1	25	0.146
UK174	21 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-19, May-22	21	B.1.5	37	0.0865
UK24	21 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-14, Apr-10	21	B.2.1	79	0.0171
UK233	21 (100.0%)	0 (0%)	0 (0%)	0 (0%)	May-25, Jun-15	21	B.1	13	0.0808
UK134	16 (80.0%)	0 (0%)	4 (20.0%)	0 (0%)	Mar-04, Apr-07	20	B.1	82	0.0218
UK125	19 (95.0%)	0 (0%)	1 (5.0%)	0 (0%)	Mar-30, May-29	20	B.1.1	30	0.1053
UK604	15 (75.0%)	2 (10.0%)	3 (15.0%)	0 (0%)	Mar-06, Mar-17	20	B.1.1	103	0.0056

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK1703	20 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-16, May-01	20	B.1	58	0.0417
UK146	18 (94.74%)	0 (0%)	1 (5.26%)	0 (0%)	Mar-24, May-07	19	B.1.1	52	0.047
UK3692	15 (78.95%)	1 (5.26%)	2 (10.53%)	1 (5.26%)	Mar-12, May-19	19	B.1.1	40	0.0944
UK70	16 (84.21%)	1 (5.26%)	0 (0%)	2 (10.53%)	Mar-06, Apr-22	19	B.2	67	0.039
UK206	0 (0%)	19 (100.0%)	0 (0%)	0 (0%)	Apr-02, May-20	19	B.1	39	0.0684
UK425	4 (22.22%)	14 (77.78%)	0 (0%)	0 (0%)	Mar-28, May-15	18	B.1.1	44	0.0642
UK502	0 (0%)	0 (0%)	18 (100.0%)	0 (0%)	Mar-06, Mar-30	18	B.1.69	90	0.0157
UK706	3 (17.65%)	0 (0%)	0 (0%)	14 (82.35%)	Mar-26, Apr-29	17	B.1.1	60	0.0354
UK268	13 (76.47%)	4 (23.53%)	0 (0%)	0 (0%)	Mar-23, Jun-03	17	B.1.1	25	0.18
UK71	16 (94.12%)	1 (5.88%)	0 (0%)	0 (0%)	Mar-08, May-06	17	B	53	0.0696
UK83	13 (81.25%)	1 (6.25%)	2 (12.5%)	0 (0%)	Feb-29, Apr-13	16	B.1.1	76	0.0386
UK3045	2 (12.5%)	14 (87.5%)	0 (0%)	0 (0%)	Apr-15, Jun-28	16	B.1.1, B.1.1.p11	0	active today
UK186	15 (93.75%)	1 (6.25%)	0 (0%)	0 (0%)	Mar-27, Jun-09	16	B	19	0.2596

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK695	0 (0%)	16 (100.0%)	0 (0%)	0 (0%)	Mar-25, Apr-12	16	B.1.67	77	0.0156
UK566	16 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-25, May-08	16	B.1.1	51	0.017
UK569	16 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-23, Jun-16	16	B.1.1	12	0.4722
UK38	14 (93.33%)	0 (0%)	1 (6.67%)	0 (0%)	Mar-04, Apr-20	15	B.2.1	69	0.0487
UK832	14 (93.33%)	0 (0%)	1 (6.67%)	0 (0%)	Mar-09, May-10	15	A.5	49	0.0904
UK722	0 (0%)	0 (0%)	15 (100.0%)	0 (0%)	Mar-23, May-27	15	B.1.5	32	0.1451
UK153	15 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-13, Apr-14	15	B.2, B.3	75	0.0305
UK49	12 (85.71%)	0 (0%)	1 (7.14%)	1 (7.14%)	Mar-12, May-01	14	B.9	58	0.0663
UK137	1 (7.14%)	0 (0%)	13 (92.86%)	0 (0%)	Mar-09, Mar-31	14	B.1.1	89	0.019
UK3509	9 (64.29%)	3 (21.43%)	2 (14.29%)	0 (0%)	Mar-23, Apr-21	14	B.1.1.10	68	0.0328
UK261	0 (0%)	0 (0%)	14 (100.0%)	0 (0%)	Mar-15, Apr-10	14	A.3	79	0.0253
UK5715	13 (92.86%)	0 (0%)	1 (7.14%)	0 (0%)	Feb-29, Apr-22	14	B.2	67	0.0608
UK32	14 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-29, May-03	14	B.1.1	56	0.0481

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK565	14 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-14, May-14	14	B.1.1	45	0.0513
UK436	0 (0%)	1 (7.14%)	13 (92.86%)	0 (0%)	Mar-28, May-14	14	B.1.5	45	0.0803
UK527	10 (71.43%)	4 (28.57%)	0 (0%)	0 (0%)	Mar-22, Apr-18	14	B.1	71	0.0293
UK602	13 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-20, Apr-02	13	B.1.1	87	0.0125
UK165	13 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-13, May-19	13	B	40	0.075
UK566	13 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-23, May-02	13	B.2	57	0.0585
UK132	12 (92.31%)	0 (0%)	1 (7.69%)	0 (0%)	Mar-27, Apr-30	13	B.1	59	0.048
UK328	13 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-13, Apr-23	13	B.1	66	0.0126
UK34	13 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Feb-27, Apr-02	13	B.4	87	0.0335
UK530	10 (76.92%)	2 (15.38%)	1 (7.69%)	0 (0%)	Mar-08, May-12	13	B.1.1	47	0.1152
UK141	13 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-22, Apr-24	13	B.1.1	65	0.0423
UK320	6 (46.15%)	0 (0%)	0 (0%)	7 (53.85%)	Mar-22, Jun-02	13	B.1	26	0.2308
UK287	11 (91.67%)	1 (8.33%)	0 (0%)	0 (0%)	Mar-28, Apr-24	12	B.1	65	0.0378

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK566	11 (91.67%)	0 (0%)	1 (8.33%)	0 (0%)	Apr-02, Apr-21	12	B.1.1, B.1.1.10	68	0.0254
UK507	12 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-18, Apr-30	12	B.1.1.10	59	0.0663
UK508	10 (83.33%)	2 (16.67%)	0 (0%)	0 (0%)	Mar-28, Apr-16	12	B.1	73	0.0237
UK193	11 (91.67%)	1 (8.33%)	0 (0%)	0 (0%)	Mar-30, May-01	12	B.1.1	58	0.0502
UK291	12 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-29, May-14	12	B.1.5	45	0.0929
UK467	11 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-23, Jun-05	11	B.1.1	23	0.3217
UK178	11 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-14, Apr-13	11	B.1.1	76	0.0395
UK215	11 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-16, Apr-11	11	B.2	78	0.0333
UK759	11 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-28, Apr-04	11	B.1.1	85	0.0082
UK2888	11 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-09, May-14	11	B.1.1	45	0.0778
UK415	11 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-19, May-06	11	B.1	53	0.0321
UK340	10 (90.91%)	1 (9.09%)	0 (0%)	0 (0%)	Mar-17, May-17	11	B.1.1	42	0.1452
UK653	11 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-07, May-19	11	B.1.1	40	0.105

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK22	11 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-02, Apr-21	11	B	68	0.0735
UK266	11 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-06, Apr-30	11	B.1	59	0.0407
UK788	10 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Feb-28, Mar-05	10	B.4	115	0.0058
UK584	9 (90.0%)	0 (0%)	1 (10.0%)	0 (0%)	Mar-17, Apr-02	10	B.2, B.2.1	87	0.0204
UK327	0 (0%)	10 (100.0%)	0 (0%)	0 (0%)	Apr-05, May-05	10	B.1	54	0.0617
UK433	5 (50.0%)	0 (0%)	5 (50.0%)	0 (0%)	Mar-22, May-03	10	B	56	0.0833
UK133	3 (30.0%)	0 (0%)	7 (70.0%)	0 (0%)	Mar-22, Apr-25	10	B.1	64	0.059
UK565	9 (90.0%)	0 (0%)	1 (10.0%)	0 (0%)	Mar-10, Apr-01	10	B.2.6	88	0.0278
UK552	10 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-31, Apr-29	10	B.1	60	0.0537
UK581	1 (10.0%)	0 (0%)	0 (0%)	9 (90.0%)	Apr-06, May-01	10	B.1.1	58	0.0479
UK55	6 (60.0%)	0 (0%)	4 (40.0%)	0 (0%)	Mar-13, May-06	10	B.1.1	53	0.1132
UK263	9 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-20, Apr-13	9	B.1.p11	76	0.0395
UK284	9 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-02, Apr-25	9	B.1.1	64	0.0449

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK113	9 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-22, Jun-02	9	B.1.1	26	0.3462
UK454	9 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-22, Apr-29	9	B.1.1	60	0.0792
UK121	9 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-21, May-27	9	B.1.1.7	32	0.1406
UK91	8 (88.89%)	1 (11.11%)	0 (0%)	0 (0%)	Mar-01, Apr-01	9	B.1	88	0.044
UK244	8 (88.89%)	1 (11.11%)	0 (0%)	0 (0%)	Mar-10, Apr-06	9	B.1.1	83	0.0407
UK563	9 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-11, May-01	9	B.1.1	58	0.1099
UK550	9 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-16, Jun-01	9	B.1.12	27	0.213
UK629	9 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-23, May-05	9	B.1	54	0.0995
UK575	9 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-14, Apr-16	9	B.2.1	73	0.0565
UK819	9 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-01, May-15	9	B.1	44	0.125
UK756	9 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Feb-27, Mar-05	9	B.1.1	115	0.0076
UK65	8 (88.89%)	0 (0%)	1 (11.11%)	0 (0%)	Mar-07, Apr-21	9	B.1.1	68	0.0827
UK698	8 (88.89%)	0 (0%)	1 (11.11%)	0 (0%)	Mar-23, Apr-12	9	B.1.p73, B.1	77	0.0325

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK181	8 (88.89%)	0 (0%)	1 (11.11%)	0 (0%)	Mar-21, Apr-20	9	B.1.5, B.1	69	0.0543
UK491	9 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-03, Apr-03	9	B, B.2	86	0.0451
UK80	5 (62.5%)	3 (37.5%)	0 (0%)	0 (0%)	Mar-31, Jun-17	8	B.1.1.p15	11	1.013
UK271	1 (12.5%)	0 (0%)	7 (87.5%)	0 (0%)	Apr-02, Apr-26	8	B.1	63	0.0544
UK195	7 (87.5%)	1 (12.5%)	0 (0%)	0 (0%)	May-19, Jun-15	8	B.1	13	0.2967
UK633	0 (0%)	8 (100.0%)	0 (0%)	0 (0%)	Apr-03, Apr-28	8	B.1.1.16, B.1.1.p16	61	0.0585
UK594	0 (0%)	0 (0%)	8 (100.0%)	0 (0%)	Apr-20, May-01	8	B	58	0.0271
UK548	0 (0%)	0 (0%)	8 (100.0%)	0 (0%)	Mar-14, Mar-30	8	B.2.1	90	0.0254
UK151	0 (0%)	0 (0%)	8 (100.0%)	0 (0%)	Mar-23, Apr-24	8	B.1	65	0.0703
UK342	8 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-02, Apr-22	8	B.1.1	67	0.0426
UK465	8 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-13, Apr-10	8	B.2.1	79	0.0506
UK530	8 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-29, May-01	8	B.1.1	58	0.0049
UK598	7 (87.5%)	1 (12.5%)	0 (0%)	0 (0%)	Mar-22, Apr-14	8	B.1.1	75	0.0438

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK323	2 (25.0%)	2 (25.0%)	4 (50.0%)	0 (0%)	Mar-12, May-06	8	B.1.35, B.1.5, B.1	53	0.1482
UK570	8 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-24, Apr-29	8	B.1.1	60	0.0857
UK696	0 (0%)	8 (100.0%)	0 (0%)	0 (0%)	Apr-10, May-01	8	B.1.5, B.1	58	0.0517
UK369	7 (87.5%)	0 (0%)	1 (12.5%)	0 (0%)	Mar-22, Apr-11	8	B.1.1	78	0.0366
UK755	8 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-06, May-21	8	B.1.1	38	0.2857
UK739	8 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-01, Mar-08	8	B.4	112	0.0089
UK656	3 (42.86%)	4 (57.14%)	0 (0%)	0 (0%)	Mar-13, Apr-24	7	B.1.1.10	65	0.1077
UK490	7 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-03, May-02	7	B.1.1	57	0.0848
UK75	6 (85.71%)	0 (0%)	1 (14.29%)	0 (0%)	Mar-28, Apr-12	7	B	77	0.0325
UK451	0 (0%)	6 (85.71%)	1 (14.29%)	0 (0%)	Mar-20, Apr-05	7	B.2.1	84	0.0317
UK767	7 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-05, Apr-19	7	B.1	70	0.0333
UK232	7 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-04, Mar-30	7	B.1.1	90	0.0481
UK464	4 (57.14%)	2 (28.57%)	0 (0%)	1 (14.29%)	Mar-25, May-04	7	B.1	55	0.1212

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK171	2 (28.57%)	0 (0%)	5 (71.43%)	0 (0%)	Mar-31, Apr-21	7	B.1	68	0.0515
UK437	5 (71.43%)	2 (28.57%)	0 (0%)	0 (0%)	Mar-23, Apr-11	7	B.1	78	0.0406
UK98	7 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-24, Jun-08	7	B.6	20	0.6333
UK269	7 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-25, Jun-02	7	B.1.1	26	0.4423
UK957	6 (85.71%)	0 (0%)	0 (0%)	1 (14.29%)	Mar-24, May-26	7	B.1.1	33	0.3182
UK799	7 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-01, Mar-07	7	B.1	113	0.0088
UK390	7 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-27, May-01	7	B.1.5	58	0.1006
UK1003	7 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-02, Apr-22	7	B.1.1	67	0.0498
UK54	7 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-11, Apr-02	7	B.2.4	87	0.0421
UK671	0 (0%)	0 (0%)	7 (100.0%)	0 (0%)	Apr-17, May-31	7	B.1.p73	28	0.2619
UK414	5 (71.43%)	0 (0%)	0 (0%)	2 (28.57%)	Mar-30, May-09	7	B.1.1	50	0.1333
UK728	7 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-19, Apr-01	7	B.2, B.2.1	88	0.0246
UK520	7 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-14, Apr-08	7	B.2.1	81	0.0514

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK270	6 (85.71%)	0 (0%)	1 (14.29%)	0 (0%)	Mar-04, Apr-03	7	B	86	0.0581
UK521	6 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-31, May-01	6	B.1.1	58	0.1069
UK552	1 (16.67%)	0 (0%)	5 (83.33%)	0 (0%)	Mar-18, Mar-30	6	A.1	90	0.0267
UK743	6 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Feb-24, Jun-14	6	B.1.5.1	14	1.5857
UK106	3 (50.0%)	1 (16.67%)	2 (33.33%)	0 (0%)	Mar-09, Apr-18	6	B, B.3	71	0.1127
UK419	0 (0%)	0 (0%)	5 (83.33%)	1 (16.67%)	Mar-30, May-07	6	B.1.1	52	0.1462
UK564	6 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-08, Apr-02	6	B.2	87	0.0575
UK364	1 (16.67%)	4 (66.67%)	0 (0%)	1 (16.67%)	Mar-19, May-14	6	B.1	45	0.2489
UK185	4 (66.67%)	0 (0%)	1 (16.67%)	1 (16.67%)	Mar-10, May-15	6	B.3	44	0.3
UK676	5 (83.33%)	0 (0%)	1 (16.67%)	0 (0%)	Mar-03, Mar-12	6	B.1.1	108	0.0167
UK403	6 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-23, Apr-14	6	B.1.1	75	0.0587
UK56	5 (83.33%)	1 (16.67%)	0 (0%)	0 (0%)	Mar-18, Apr-04	6	B.2	85	0.04
UK456	6 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-03, Apr-23	6	B.1.1	66	0.0606

Lineage name	England	Wales	Scotland	Northern Ireland	Date range	Total sequences	Global lineage	Time since last sample (days)	Activity score
UK654	6 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Feb-27, Mar-08	6	B.2.5	112	0.0179
UK60	6 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-21, Mar-30	6	B	90	0.02
UK186	6 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-18, Apr-30	6	B.1.1	59	0.1458
UK697	0 (0%)	0 (0%)	6 (100.0%)	0 (0%)	Mar-31, Apr-24	6	B.1	65	0.0738
UK330	5 (83.33%)	1 (16.67%)	0 (0%)	0 (0%)	Mar-23, Apr-08	6	B.1.1	81	0.0395
UK293	6 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-13, Apr-16	6	B.3	73	0.0932
UK777	6 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Apr-01, Apr-14	6	B.1	75	0.0347
UK473	0 (0%)	0 (0%)	6 (100.0%)	0 (0%)	Apr-22, May-27	6	B.1.1	32	0.2188
UK288	3 (50.0%)	0 (0%)	2 (33.33%)	1 (16.67%)	Mar-12, Apr-04	6	B.2.1	85	0.0541
UK196	6 (100.0%)	0 (0%)	0 (0%)	0 (0%)	Mar-15, Mar-31	6	B.2.1	89	0.036
UK243	3 (50.0%)	0 (0%)	3 (50.0%)	0 (0%)	Mar-18, Apr-12	6	B.1.5	77	0.0649

Table S2 Raw data for figure two showing lags between the most recent sequence and current date for each sequencing centre

	Centre	Lag in days
0	PHWC	5
1	NOTT	6
2	BIRM	8
3	SHEF	9
4	CAMB	10
5	EDIN	11
6	NORW	15
7	GLAS	15
8	PHEC	16
9	LIVE	17
10	SANG	24
11	PORT	24
12	EXET	30
13	NORT	33
14	OXON	45
15	LOND	50
16	NIRE	94

Table S3 Raw data for figure three showing the number of admin2 regions a lineage is present in over time

Week commencing	UK5	UK107	UK42	UK36	UK2464	UK199	UK2913	UK5098	UK109	UK2916
2020-02-02	0	0	0	0	0	0	0	0	0	1
2020-02-09	0	1	0	0	0	0	0	0	0	0
2020-02-16	1	0	0	0	0	0	0	0	0	0
2020-02-23	2	5	5	0	0	1	0	0	0	10
2020-03-01	11	6	15	0	0	2	1	1	0	16
2020-03-08	31	19	18	0	4	3	4	1	3	8
2020-03-15	36	28	23	6	13	13	9	4	6	10
2020-03-22	63	36	40	9	28	27	19	8	7	17
2020-03-29	71	41	49	20	33	29	26	5	18	20
2020-04-05	81	37	53	18	29	34	27	13	22	18
2020-04-12	78	28	41	26	31	27	27	14	19	16
2020-04-19	87	19	35	17	24	25	21	15	16	14
2020-04-26	78	12	27	13	15	19	16	7	10	13
2020-05-03	79	4	16	12	11	12	6	6	9	4
2020-05-10	70	2	11	14	8	11	7	11	12	3
2020-05-17	57	1	8	9	3	5	3	10	5	1
2020-05-24	46	0	4	5	1	4	4	8	3	0
2020-05-31	35	1	6	7	3	3	4	4	4	3
2020-06-07	28	0	0	0	1	2	0	0	2	1
2020-06-14	14	0	0	0	2	0	1	0	0	0
2020-06-21	7	0	1	0	0	1	0	0	0	0

Table S4 Raw data for figure four showing the Shannon diversity per admin1 region over time

Week	England	Wales	Scotland	Northern Ireland
2020-02-02	0.562335	0	0	0
2020-02-09	-0	0	0	0
2020-02-16	-0	0	0	0
2020-02-23	2.69812	-0	-0	0
2020-03-01	3.27542	1.03972	2.1961	0
2020-03-08	3.73035	1.82175	3.30629	2.13833
2020-03-15	3.5986	1.90111	3.38952	1.65948
2020-03-22	3.82189	2.35921	3.58468	2.73527
2020-03-29	3.79534	3.31791	3.45432	1.71147
2020-04-05	3.51223	3.04127	3.24663	2.19792
2020-04-12	3.32701	2.77082	3.14563	1.56957
2020-04-19	3.19203	2.87373	3.10626	1.7272
2020-04-26	2.98946	2.83926	2.79133	1.55027
2020-05-03	2.8654	2.61705	2.66917	0.979229
2020-05-10	2.46193	2.45208	2.58735	-0
2020-05-17	2.13989	2.38265	2.32646	-0
2020-05-24	2.328	2.11254	2.46267	-0
2020-05-31	2.515	1.8823	2.10997	-0
2020-06-07	1.90464	1.61473	1.58326	0
2020-06-14	1.67341	-0	1.27703	0
2020-06-21	1.51715	0.636514	-0	0
2020-06-28	0	-0	0	0

Table S5 Raw data for figure five showing when lineages started per day, divided by singletons and non-singletons

Day	Number of singleton starts	Number of non-singleton starts	Total
2020-02-03	0	1	1
2020-02-05	0	1	1
2020-02-09	0	1	1
2020-02-16	0	1	1
2020-02-23	0	1	1
2020-02-24	0	2	2
2020-02-25	0	2	2
2020-02-26	1	2	3
2020-02-27	1	5	6
2020-02-28	0	5	5
2020-02-29	0	2	2
2020-03-01	2	5	7
2020-03-02	1	6	7
2020-03-03	0	7	7
2020-03-04	3	8	11
2020-03-05	0	5	5
2020-03-06	4	9	13
2020-03-07	5	6	11
2020-03-08	1	4	5
2020-03-09	4	12	16
2020-03-10	5	8	13
2020-03-11	9	15	24
2020-03-12	6	24	30
2020-03-13	12	12	24
2020-03-14	6	9	15
2020-03-15	6	6	12
2020-03-16	3	5	8
2020-03-17	7	16	23
2020-03-18	8	20	28
2020-03-19	9	11	20
2020-03-20	9	22	31
2020-03-21	8	12	20
2020-03-22	11	20	31
2020-03-23	11	25	36
2020-03-24	15	18	33
2020-03-25	19	17	36
2020-03-26	12	18	30
2020-03-27	17	15	32
2020-03-28	11	16	27
2020-03-29	18	11	29
2020-03-30	20	22	42
2020-03-31	27	21	48
2020-04-01	20	10	30
2020-04-02	14	18	32
2020-04-03	18	12	30
2020-04-04	12	5	17
2020-04-05	14	9	23
2020-04-06	11	12	23
2020-04-07	9	11	20
2020-04-08	15	6	21
2020-04-09	8	3	11
2020-04-10	10	5	15
2020-04-11	8	4	12
2020-04-12	7	5	12
2020-04-13	17	6	23
2020-04-14	9	4	13
2020-04-15	2	4	6

Day	Number of singleton starts	Number of non-singleton starts	Total
2020-04-16	16	7	23
2020-04-17	5	4	9
2020-04-18	8	4	12
2020-04-19	4	2	6
2020-04-20	6	4	10
2020-04-21	12	2	14
2020-04-22	5	6	11
2020-04-23	2	6	8
2020-04-24	5	2	7
2020-04-25	2	3	5
2020-04-26	2	0	2
2020-04-27	4	2	6
2020-04-28	6	3	9
2020-04-29	3	1	4
2020-04-30	3	0	3
2020-05-01	2	1	3
2020-05-02	1	1	2
2020-05-03	3	0	3
2020-05-04	4	3	7
2020-05-05	1	0	1
2020-05-06	2	0	2
2020-05-07	0	2	2
2020-05-08	3	0	3
2020-05-10	0	1	1
2020-05-11	3	0	3
2020-05-12	2	0	2
2020-05-14	3	1	4
2020-05-17	2	0	2
2020-05-18	0	1	1
2020-05-19	0	1	1
2020-05-20	0	1	1
2020-05-22	2	0	2
2020-05-23	1	0	1
2020-05-25	1	1	2
2020-05-26	1	0	1
2020-06-03	1	0	1
2020-06-04	1	0	1
2020-06-05	1	0	1
2020-06-06	0	1	1
2020-06-08	1	0	1
2020-06-09	1	0	1
2020-06-15	1	0	1

Table S6 Raw data for figure six showing the number of sequences taken over time.

Day	England	Scotland	Wales	Northern Ireland
2020-02-03	1	0	0	0
2020-02-05	1	0	0	0
2020-02-08	2	0	0	0
2020-02-09	1	0	0	0
2020-02-13	1	0	0	0
2020-02-16	1	0	0	0
2020-02-23	2	0	0	0
2020-02-24	5	0	0	0
2020-02-25	7	0	0	0
2020-02-26	6	0	0	0
2020-02-27	19	0	1	0
2020-02-28	24	1	0	0
2020-02-29	23	0	0	0
2020-03-01	51	1	1	0
2020-03-02	76	1	0	0
2020-03-03	97	2	0	0
2020-03-04	107	5	1	0
2020-03-05	85	3	0	0
2020-03-06	81	7	0	0
2020-03-07	46	5	2	0
2020-03-08	53	1	2	0
2020-03-09	75	12	1	0
2020-03-10	98	5	5	2
2020-03-11	151	11	10	3
2020-03-12	193	32	7	0
2020-03-13	113	42	8	1
2020-03-14	95	13	10	6
2020-03-15	86	8	15	0
2020-03-16	95	14	22	5
2020-03-17	136	33	32	7
2020-03-18	209	27	24	6
2020-03-19	172	31	30	3
2020-03-20	225	40	12	6
2020-03-21	232	44	0	13
2020-03-22	213	50	0	8
2020-03-23	385	96	1	29
2020-03-24	347	87	25	23
2020-03-25	341	78	91	16
2020-03-26	367	111	18	27
2020-03-27	356	130	29	7
2020-03-28	372	82	17	12
2020-03-29	407	63	22	11
2020-03-30	573	134	75	6
2020-03-31	562	98	141	8
2020-04-01	467	84	131	0
2020-04-02	461	61	99	1
2020-04-03	507	83	111	0
2020-04-04	382	58	128	1
2020-04-05	374	55	65	0
2020-04-06	447	103	167	18
2020-04-07	407	97	185	5
2020-04-08	397	91	126	14
2020-04-09	372	41	83	1
2020-04-10	350	53	120	19
2020-04-11	277	62	73	14
2020-04-12	233	85	87	23
2020-04-13	296	92	77	22

Day	England	Scotland	Wales	Northern Ireland
2020-04-14	335	84	123	14
2020-04-15	336	85	80	23
2020-04-16	376	101	74	32
2020-04-17	349	70	47	28
2020-04-18	262	73	43	7
2020-04-19	236	30	37	9
2020-04-20	318	76	71	25
2020-04-21	272	107	41	23
2020-04-22	284	107	21	23
2020-04-23	268	81	31	11
2020-04-24	175	91	70	10
2020-04-25	120	70	41	14
2020-04-26	119	49	19	4
2020-04-27	193	61	75	11
2020-04-28	169	36	51	15
2020-04-29	240	23	52	11
2020-04-30	202	24	56	15
2020-05-01	229	25	46	16
2020-05-02	123	13	51	9
2020-05-03	104	16	20	12
2020-05-04	194	9	40	20
2020-05-05	133	18	34	4
2020-05-06	158	32	53	2
2020-05-07	143	39	53	3
2020-05-08	90	40	32	7
2020-05-09	66	29	41	10
2020-05-10	92	30	38	1
2020-05-11	132	34	70	3
2020-05-12	92	50	44	4
2020-05-13	87	40	53	0
2020-05-14	61	50	28	0
2020-05-15	70	22	33	0
2020-05-16	49	21	18	0
2020-05-17	34	16	19	0
2020-05-18	76	35	36	1
2020-05-19	64	38	40	1
2020-05-20	36	18	42	0
2020-05-21	47	28	26	0
2020-05-22	40	17	32	0
2020-05-23	21	8	25	0
2020-05-24	21	8	18	0
2020-05-25	42	13	23	0
2020-05-26	46	6	31	0
2020-05-27	34	12	35	1
2020-05-28	35	7	25	0
2020-05-29	21	2	25	0
2020-05-30	29	5	15	0
2020-05-31	39	7	11	0
2020-06-01	49	7	13	1
2020-06-02	51	14	6	0
2020-06-03	49	4	16	0
2020-06-04	41	9	10	0
2020-06-05	30	3	3	0
2020-06-06	21	4	2	0
2020-06-07	26	1	1	0
2020-06-08	32	2	3	0
2020-06-09	31	1	8	0
2020-06-10	29	2	8	0
2020-06-11	19	3	4	0

Day	England	Scotland	Wales	Northern Ireland
2020-06-12	16	2	3	0
2020-06-13	12	1	0	0
2020-06-14	11	1	0	0
2020-06-15	21	3	0	0
2020-06-16	18	1	0	0
2020-06-17	14	1	0	0
2020-06-18	26	1	0	0
2020-06-19	7	0	1	0
2020-06-20	4	0	1	0
2020-06-21	3	0	0	0
2020-06-22	2	3	0	0
2020-06-23	4	0	0	0
2020-06-24	1	0	0	0
2020-06-25	1	0	0	0
2020-06-26	1	0	2	0
2020-06-27	1	0	4	0
2020-06-28	0	0	1	0

Table S7 Raw data for the figure seven with the number of sequences assigned to each admin2 region.

Admin2	Country	Number of sequences	Sequence group
ABERDEEN	Scotland	23	10-50
ABERDEENSHIRE	Scotland	12	10-50
ANGLESEY	Wales	80	50-100
ANGUS	Scotland	69	50-100
ANTRIM	Northern Ireland	325	300-400
ARGYLL AND BUTE	Scotland	14	10-50
ARMAGH	Northern Ireland	29	10-50
BATH AND NORTH EAST SOMERSET	England	0	0
BEDFORDSHIRE	England	452	400-500
BERKSHIRE	England	21	10-50
BLACKBURN WITH DARWEN	England	0	0
BLACKPOOL	England	0	0
BLAENAU GWENT	Wales	59	50-100
BOLTON	England	0	0
BOURNEMOUTH	England	0	0
BRIDGEND	Wales	114	100-150
BRIGHTON AND HOVE	England	0	0
BRISTOL	England	18	10-50
BUCKINGHAMSHIRE	England	413	400-500
BURY	England	0	0
CAERPHILLY	Wales	142	100-150
CAMBRIDGESHIRE	England	727	>500
CARDIFF	Wales	586	>500
CARMARTHENSHIRE	Wales	148	100-150
CENTRAL BEDFORDSHIRE	England	0	0
CEREDIGION	Wales	16	10-50
CHESHIRE	England	44	10-50
CLACKMANNANSHIRE	Scotland	4	1-10
CONWY	Wales	162	150-200
CORNWALL	England	27	10-50
CUMBRIA	England	78	50-100
DARLINGTON	England	0	0
DENBIGHSHIRE	Wales	194	150-200
DERBY	England	0	0
DERBYSHIRE	England	30	10-50
DEVON	England	421	400-500
DORSET	England	192	150-200
DOWN	Northern Ireland	272	250-300
DUMFRIES AND GALLOWAY	Scotland	88	50-100
DUNDEE	Scotland	278	250-300
DURHAM	England	161	150-200
EAST AYRSHIRE	Scotland	93	50-100
EAST DUNBARTONSHIRE	Scotland	73	50-100
EAST LOTHIAN	Scotland	57	50-100
EAST RENFREWSHIRE	Scotland	40	10-50
EAST RIDING OF YORKSHIRE	England	35	10-50
EDINBURGH	Scotland	478	400-500
EILEAN SIAR	Scotland	2	1-10
ESSEX	England	1432	>500
FALKIRK	Scotland	102	100-150
FERMANAGH	Northern Ireland	5	1-10
FIFE	Scotland	51	50-100
FLINTSHIRE	Wales	131	100-150
GATESHEAD	England	0	0
GLASGOW	Scotland	1246	>500
GLOUCESTERSHIRE	England	708	>500
GREATER LONDON	England	2654	>500

Admin2	Country	Number of sequences	Sequence group
GUERNSEY	Channel_islands	41	10-50
GWYNEDD	Wales	125	100-150
HALTON	England	0	0
HAMPSHIRE	England	347	300-400
HARTLEPOOL	England	0	0
HEREFORDSHIRE	England	59	50-100
HERTFORDSHIRE	England	1031	>500
HIGHLAND	Scotland	10	10-50
INVERCLYDE	Scotland	42	10-50
ISLE OF WIGHT	England	1	1-10
ISLES OF SCILLY	England	0	0
JERSEY	Channel_islands	77	50-100
KENT	England	38	10-50
KINGSTON UPON HULL	England	0	0
LANCASHIRE	England	53	50-100
LEICESTER	England	0	0
LEICESTERSHIRE	England	109	100-150
LINCOLNSHIRE	England	73	50-100
LONDONDERRY	Northern Ireland	32	10-50
LUTON	England	0	0
MANCHESTER	England	30	10-50
MEDWAY	England	0	0
MERSEYSIDE	England	549	>500
MERTHYR TYDFIL	Wales	103	100-150
MIDDLESBROUGH	England	0	0
MIDLOTHIAN	Scotland	146	100-150
MILTON KEYNES	England	0	0
MONMOUTHSHIRE	Wales	88	50-100
MORAY	Scotland	10	10-50
NEATH PORT TALBOT	Wales	119	100-150
NEWPORT	Wales	165	150-200
NORFOLK	England	626	>500
NORTH AYRSHIRE	Scotland	18	10-50
NORTH LANARKSHIRE	Scotland	273	250-300
NORTH LINCOLNSHIRE	England	0	0
NORTH SOMERSET	England	0	0
NORTH YORKSHIRE	England	123	100-150
NORTHAMPTONSHIRE	England	28	10-50
NORTHUMBERLAND	England	172	150-200
NOTTINGHAM	England	685	>500
NOTTINGHAMSHIRE	England	59	50-100
OLDHAM	England	0	0
ORKNEY ISLANDS	Scotland	1	1-10
OXFORDSHIRE	England	98	50-100
PEMBROKESHIRE	Wales	73	50-100
PERTHSHIRE AND KINROSS	Scotland	118	100-150
PETERBOROUGH	England	0	0
PLYMOUTH	England	1	1-10
POOLE	England	0	0
PORTSMOUTH	England	0	0
POWYS	Wales	77	50-100
REDCAR AND CLEVELAND	England	0	0
RENFREWSHIRE	Scotland	317	300-400
RHONDDA, CYNON, TAFF	Wales	0	0
ROCHDALE	England	0	0
RUTLAND	England	0	0
SALFORD	England	0	0
SCOTTISH BORDERS	Scotland	143	100-150
SHETLAND ISLANDS	Scotland	14	10-50

Admin2	Country	Number of sequences	Sequence group
SHROPSHIRE	England	6	1-10
SOMERSET	England	652	>500
SOUTH AYRSHIRE	Scotland	7	1-10
SOUTH GLOUCESTERSHIRE	England	0	0
SOUTH LANARKSHIRE	Scotland	70	50-100
SOUTH YORKSHIRE	England	1594	>500
SOUTHAMPTON	England	0	0
SOUTHEND-ON-SEA	England	0	0
STAFFORDSHIRE	England	62	50-100
STIRLING	Scotland	18	10-50
STOCKPORT	England	0	0
STOCKTON-ON-TEES	England	0	0
STOKE-ON-TRENT	England	0	0
SUFFOLK	England	596	>500
SURREY	England	73	50-100
SUSSEX	England	1	1-10
SWANSEA	Wales	276	250-300
SWINDON	England	0	0
TAMESIDE	England	0	0
TELFORD AND WREKIN	England	0	0
THURROCK	England	0	0
TORBAY	England	0	0
TORFAEN	Wales	91	50-100
TRAFFORD	England	0	0
TYNE AND WEAR	England	496	400-500
TYRONE	Northern Ireland	25	10-50
VALE OF GLAMORGAN	Wales	191	150-200
WARRINGTON	England	0	0
WARWICKSHIRE	England	11	10-50
WEST DUNBARTONSHIRE	Scotland	49	10-50
WEST LOTHIAN	Scotland	131	100-150
WEST MIDLANDS	England	167	150-200
WEST YORKSHIRE	England	22	10-50
WIGAN	England	0	0
WILTSHIRE	England	386	300-400
WORCESTERSHIRE	England	13	10-50
WREXHAM	Wales	166	150-200
YORK	England	0	0