

Supplementary Table S2. Table shows the reads per kilobase of transcript per million mapped reads (RPKM) for each sample tested by HTS, Equation $RPKM = (10^9 \times C)/(N \times L)$, where C is the number of unique high-quality reads that mapped to the transcript, N is the total number of unique high-quality reads in the library, and L is the length of the transcript. The table also gives the GenBank accession number for the representative sequence. Sample type- BFS- bulk field sample, ID-BFS- in depth bulk field sample, BS- bulked symptomatic samples, IS- individual symptomatic sample, and HI- historic isolate.

Sample type	Virus	TuYV	TuYV	SbDV	PEMV-2	PEMV-1	PSbMV	BYMV	PEMV Sat	GenBank Accession Numbers for sequences obtained in this study
	Accession	NC_003743.1	MN497802.1	NC_003056.1	NC_003853.1	NC_003629.1	NC_001671.1	NC_003492.1	U03564.1	
	Length	5641	5577	5853	4253	5706	9924	9532	717	
BFS	Ancaster	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	
BFS	Kidderminster	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BFS	Long Sutton	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BFS	Lincoln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BFS	Woodbridge	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	
BFS	Canterbury	5.4	36.7	0.0	0.0	0.5	1.0	0.2	0.0	TuYV: OK030767
BFS	Finavon	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
BFS	Salisbury	0.0	0.2	0.0	776.4	2593.6	0.1	0.1	0.0	PEMV-1: OK030715 PEMV-2: OK030729
BFS	East Riding	0.9	2.1	0.0	0.0	0.0	0.0	0.0	0.0	TuYV: OK030768
BFS	Ulceby	5.7	21.9	0.0	11.0	0.6	0.0	0.0	10.0	PEMV-2: OK030758 TuYV: OK030769

BFS	Chatteris	58.1	242.6	0.2	0.0	0.7	0.3	0.4	0.0	TuYV: OK030770
BFS	Langtoft	6.4	33.9	0.4	311.9	0.8	0.7	0.7	0.0	PEMV-2: OK030730 TuYV: OK030771
BFS	Louth	26.6	93.5	0.0	557.0	0.0	0.1	0.5	0.0	PEMV-2: OK030731 TuYV: OK030772
BFS	Market Weighton	56.5	287.2	2.2	23.5	0.0	0.1	0.1	0.0	PEMV-2: OK030732 SbDV: OK030748 TuYV: OK030773
ID-BFS	Market Weighton	58.4	280.9	3.4	22.5	0.2	0.2	0.3	0.0	PEMV-2: OK030795 SbDV: OK030799 TuYV: OK030750
BS	Market Weighton	78.6	226.7	0.1	11.6	76.8	0.7	0.8	0.0	PEMV-1: OK030716 PEMV-2: OK030796 TuYV: OK030774
BFS	Perth	0.2	1.2	0.8	64.8	694.6	0.7	1.2	0.0	PEMV-1: OK030717 PEMV-2: OK030735 SbDV: OK030749 TuYV: OK030775
ID-BFS	Perth	0.1	1.2	1.2	63.9	735.2	0.6	1.0	0.0	PEMV-1: OK030718

										PEMV-2: OK030733 SbDV: OK030751 TuYV: OK030776
BFS	Wainfleet	9.1	43.1	0.0	425.0	10.7	0.0	0.0	444.1	PEMV-1: OK030766 PEMV-2: OK030734 PEMV-satRNA: OK030761 TuYV: OK030777
BS	Wainfleet	172.0	593.3	0.1	5422.6	8825.0	0.1	0.2	15152.3	PEMV-1: OK030719 PEMV-2: OK030736 PEMV-satRNA: OK030762 TuYV: OK030778
BFS	Stoneleigh	2.5	8.8	0.0	0.0	0.1	0.1	0.0	0.0	TuYV: OK030779
BFS	Eye	20.8	48.9	0.4	0.8	0.2	0.3	0.9	96.8	PEMV-satRNA: OK030763 TuYV: OK030780
BS	Eye	100.9	802.5	0.0	209.9	0.5	0.1	0.2	0.0	PEMV-2: OK030737 TuYV: OK030781
BFS	Langton	55.6	273.3	0.2	140.1	0.4	0.1	0.3	0.0	PEMV-2: OK030740

										TuYV: OK030782
BS	Langton	130.5	533.9	0.4	0.1	0.7	0.3	0.2	0.0	TuYV: OK030783
BFS	Chirnside	2.4	9.2	0.0	235.5	470.1	0.5	0.1	26.5	PEMV-1: OK030720 PEMV-2: OK030738 PEMV-satRNA: OK030760 TuYV: OK030784
ID-BFS	Chirnside	3.1	9.2	0.1	247.0	503.0	0.4	0.4	24.7	PEMV-1: OK030727 PEMV-2: OK030739 PEMV-satRNA: OK030759 TuYV: OK030785
IS	Market Rasen	0.6	0.5	0.0	0.0	0.6	0.0	0.0	0.0	TuYVaRNA: OK030786
IS	Ramsey-1	2899.4	7769.4	0.2	26732.8	59323.1	0.0	0.0	0.0	PEMV-1: OK030721 PEMV-2: OK030741 TuYV: OK030798
IS	Ramsey-2	1794.7	7734.7	0.0	7533.2	0.7	0.0	0.4	0.0	PEMV-2: OK030742 TuYV: OK030788
IS	March	1659.2	4188.1	0.1	9861.7	15667.7	155.9	1.9	0.0	PEMV-1: OK030722

										PEMV-2: OK030743 PSbMV: OK030753 TuYV: OK030789 TuYVaRNA: OK030787
IS	Ramsey-3	67.0	600.9	0.1	19040.5	39555.5	7.5	0.3	0.0	PEMV-1: OK030723 PEMV-2: OK030744 PSbMV: OK030754 TuYV: OK030790
IS	Ramsey-4	6144.2	11323.7	0.0	3703.6	0.2	0.2	0.1	0.0	PEMV-2: OK030728 TuYV: OK030791
IS	The Deepings	6454.4	15091.5	0.0	29754.0	38626.4	0.2	35.8	53.8	PEMV-1: OK030724 PEMV-2: OK030745 PEMV-satRNA: OK030764 BYMV: OK030755 TuYV: OK030792
IS	Cambridge-1	3026.1	14705.9	0.5	12769.7	84.3	271.5	2.2	76062.0	PEMV-1: OK030725 PEMV-2: OK030746 PSbMV: OK030756

										TuYV: OK030793
IS	Cambridge-2	0.2	0.2	0.0	28709.2	53909.8	0.0	0.1	25462.8	PEMV-1: OK030726 PEMV-2: OK030747 PEMV-satRNA: OK030765
HI	East Anglia	9920.7	16824.6	2752.9	7529.3	0.2	1595.3	0.5	0.0	PSbMV: OK030757 SbDV: OK030752 TuYV: OK030794