

	Model	WIS	WIS - sd	dispersion	Underpred.	Overpred.	Bias	Abs. error	50%-Cov.	90%-Cov.
Cases										
3 wk ahead	Hub-ensemble	33400 (1)	40700 (1)	9130 (1)	7690 (1)	16600 (1)	-0.01	46900 (1)	0.29	0.62
	Hub-ensemble-realised	30800 (0.92)	38600 (0.95)	7910 (0.87)	6890 (0.9)	16000 (0.96)	0.03	44200 (0.94)	0.29	0.62
	Hub-ensemble-with-crowd	30800 (0.92)	34100 (0.84)	7500 (0.82)	8960 (1.17)	14300 (0.86)	0.02	44100 (0.94)	0.24	0.55
	Hub-ensemble-with-renewal	34000 (1.02)	43100 (1.06)	8860 (0.97)	6300 (0.82)	18900 (1.14)	0.02	48100 (1.03)	0.29	0.60
4 wk ahead	Hub-ensemble	55900 (1)	73700 (1)	12200 (1)	12400 (1)	31300 (1)	0.01	74400 (1)	0.24	0.52
	Hub-ensemble-realised	51200 (0.92)	69900 (0.95)	10900 (0.89)	11100 (0.9)	29300 (0.94)	0.04	69600 (0.94)	0.19	0.57
	Hub-ensemble-with-crowd	48800 (0.87)	58600 (0.8)	9700 (0.8)	13700 (1.1)	25400 (0.81)	0.00	65800 (0.88)	0.19	0.48
	Hub-ensemble-with-renewal	59100 (1.06)	84100 (1.14)	12600 (1.03)	10100 (0.81)	36400 (1.16)	0.01	78900 (1.06)	0.29	0.55
Deaths										
3 wk ahead	Hub-ensemble	319 (1)	328 (1)	172 (1)	92.7 (1)	55.1 (1)	-0.03	488 (1)	0.54	0.96
	Hub-ensemble-realised	332 (1.04)	388 (1.18)	158 (0.92)	78.7 (0.85)	95 (1.72)	-0.02	547 (1.12)	0.46	1.00
	Hub-ensemble-with-all	321 (1.01)	385 (1.17)	153 (0.89)	100 (1.08)	68.1 (1.24)	-0.01	535 (1.1)	0.54	1.00
	Hub-ensemble-with-convolution	298 (0.93)	337 (1.03)	155 (0.9)	106 (1.14)	37.5 (0.68)	-0.04	441 (0.9)	0.67	0.92
	Hub-ensemble-with-crowd	319 (1)	342 (1.04)	160 (0.93)	85.1 (0.92)	73.6 (1.34)	-0.02	547 (1.12)	0.54	0.96
	Hub-ensemble-with-renewal	332 (1.04)	363 (1.11)	168 (0.98)	86.1 (0.93)	78.2 (1.42)	-0.02	528 (1.08)	0.58	0.96
4 wk ahead	Hub-ensemble	424 (1)	443 (1)	212 (1)	126 (1)	85.7 (1)	-0.06	675 (1)	0.58	0.92
	Hub-ensemble-realised	445 (1.05)	532 (1.2)	193 (0.91)	107 (0.85)	144 (1.68)	-0.03	700 (1.04)	0.54	0.92
	Hub-ensemble-with-all	399 (0.94)	438 (0.99)	195 (0.92)	105 (0.83)	97.9 (1.14)	-0.05	692 (1.03)	0.46	1.00
	Hub-ensemble-with-convolution	384 (0.91)	387 (0.87)	196 (0.92)	122 (0.97)	65.9 (0.77)	-0.06	602 (0.89)	0.54	0.96
	Hub-ensemble-with-crowd	407 (0.96)	456 (1.03)	202 (0.95)	105 (0.83)	101 (1.18)	-0.03	669 (0.99)	0.67	0.96
	Hub-ensemble-with-renewal	457 (1.08)	527 (1.19)	208 (0.98)	129 (1.02)	121 (1.41)	-0.06	744 (1.1)	0.50	0.96