

Table S4

Model	Relative WIS	% WIS Below Baseline	1 Wk Coverage	2 Wk Coverage	3 Wk Coverage	4 Wk Coverage	% Cov abv 90 (1 Wk)	% Cov abv 90 (2 Wk)	% Cov abv 90 (3 Wk)	% Cov abv 90 (4 Wk)
2021-2022										
CMU-TimeSeries	0.79	86.54	90.17	91.45	90.60	86.54	50.00	72.22	61.11	27.78
Flusight-ensemble	0.83	96.15	89.32	86.11	85.15	83.33	55.56	33.33	27.78	38.89
PSI-DICE	0.84	84.62	88.89	83.87	78.31	76.50	38.89	27.78	5.56	0.00
UMass-trends_ensemble	0.91	63.46	96.15	97.65	96.90	96.15	100.00	100.00	100.00	100.00
SGroup-RandomForest	0.97	57.69	95.41	94.87	94.66	94.12	88.89	88.89	83.33	88.89
CEID-Walk	0.98	61.54	82.09	83.77	81.01	81.85	37.50	37.50	31.25	37.50
CU-ensemble	0.98	57.69	79.59	80.66	76.50	71.90	16.67	11.11	0.00	0.00
GT-FluFNP	0.98	58.00	70.11	68.67	68.22	70.11	5.56	16.67	16.67	22.22
Flusight-baseline	1.00	0.00	82.26	84.19	82.48	81.62	27.78	22.22	22.22	22.22
SigSci-TSENS	1.01	52.00	74.11	73.44	70.54	69.20	11.11	5.56	5.56	5.56
IEM_Health-FluProject	1.02	48.08	91.45	86.54	82.59	78.21	72.22	38.89	22.22	22.22
LUcompUncertLab-TEVA	1.04	38.46	84.86	85.58	86.06	86.18	25.00	18.75	25.00	31.25
MOBS-GLEAM_FLUH	1.07	38.00	71.11	65.80	59.79	56.49	0.00	0.00	0.00	0.00
LUcompUncertLab-VAR2_plusCOVID	1.08	44.23	76.70	74.77	73.30	70.14	17.65	5.88	5.88	5.88
UVAFluX-Ensemble	1.14	15.38	66.05	65.51	62.58	60.95	11.11	0.00	0.00	0.00
UT_FluCast-Voltaire	1.15	26.92	94.73	90.96	89.13	90.42	83.33	72.22	55.56	61.11
LUcompUncertLab-VAR2K_plusCOVID	1.19	26.92	75.72	75.24	74.04	72.72	6.25	0.00	0.00	0.00
SGroup-SlkJalpha	1.24	7.69	40.28	45.73	48.08	48.29	0.00	0.00	0.00	0.00
LUcompUncertLab-VAR2	1.35	3.85	73.87	72.29	72.17	70.81	11.76	5.88	11.76	11.76
LUcompUncertLab-VAR2K	1.54	9.62	81.97	81.49	83.05	85.46	6.25	18.75	25.00	37.50
LosAlamos_NAU-CModel_Flu	1.62	11.54	65.28	59.29	56.52	54.06	5.56	0.00	0.00	0.00
GH-Flusight	1.88	3.85	18.33	12.90	11.99	10.63	0.00	0.00	0.00	0.00
SigSci-CREG	2.06	8.00	46.87	43.98	43.86	43.13	0.00	0.00	0.00	0.00
2022-2023										
MOBS-GLEAM_FLUH	0.66	100.00	78.42	74.60	73.41	75.32	30.77	19.23	15.38	15.38
CMU-TimeSeries	0.70	92.31	84.13	84.84	84.76	84.13	50.00	57.69	65.38	65.38
MIGHTE-Nsemble	0.70	98.08	83.65	81.19	78.10	72.22	56.00	52.00	60.00	52.00
PSI-DICE	0.71	96.15	86.09	78.18	73.22	71.60	57.69	61.54	57.69	53.85
Flusight-ensemble	0.74	100.00	83.14	78.18	74.70	73.59	57.69	61.54	57.69	53.85
JHU_IDD-CovidSP	0.82	74.51	84.86	79.03	75.27	72.04	59.09	54.55	50.00	50.00
UMass-trends_ensemble	0.83	90.38	90.01	88.24	85.21	83.65	73.08	69.23	65.38	65.38
CU-ensemble	0.85	78.85	67.83	67.05	65.12	62.76	36.36	45.45	45.45	45.45
SGroup-RandomForest	0.87	90.38	88.08	81.38	78.23	76.46	68.00	64.00	64.00	60.00
GT-FluFNP	0.90	88.00	73.24	69.58	72.07	74.65	50.00	50.00	50.00	61.54
Flusight-baseline	1.00	0.00	74.63	69.30	65.83	64.05	50.00	50.00	50.00	50.00
UGA_flucast-OKeeffe	1.02	50.98	76.31	67.69	62.75	60.39	40.00	36.00	28.00	28.00
UVAFluX-Ensemble	1.02	35.29	40.87	41.25	37.03	37.03	0.00	0.00	0.00	0.00
VTsanghani-ExogModel	1.04	32.69	63.00	58.15	55.31	55.13	0.00	0.00	0.00	4.76
CEPH-Rtrend_fluH	1.07	55.77	70.99	75.92	74.83	73.24	34.78	39.13	47.83	34.78
SigSci-TSENS	1.11	8.00	71.60	68.97	67.54	65.63	46.15	46.15	46.15	50.00
SigSci-CREG	1.16	20.00	61.83	54.74	50.70	48.15	38.46	38.46	34.62	34.62
ISU_NiemiLab-Flu	1.25	9.62	54.81	55.19	49.42	46.35	20.00	25.00	10.00	10.00

Table S4: % WIS Below Baseline shows the percent of WIS values for each model below the corresponding FluSight-Baseline WIS. The '% Cov abv 90' columns show the percent of weekly 95% coverage values that are greater than or equal to 90% for each model by horizon.