

Influenza Forecasting Update – week 44

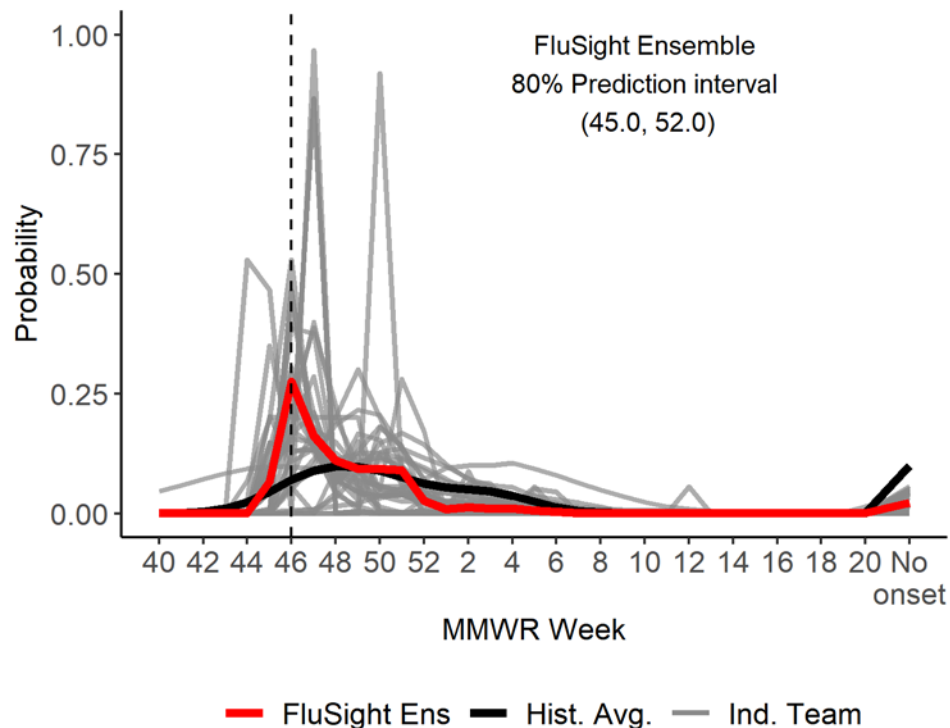
Full forecasts, including individual states, at <https://predict.cdc.gov>

U.S. Forecasting Summary

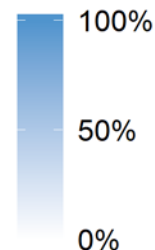
- Received 35 forecasts from 20 groups
- 61% chance of onset during November versus 33% historically
- Forecast for peak week and peak percent are similar to historical average
- Short-term forecasts show a steady increase in ILI over the next 4 weeks
 - 46% chance at or above baseline for week 46

Season onset

US Onset Predicted Probability

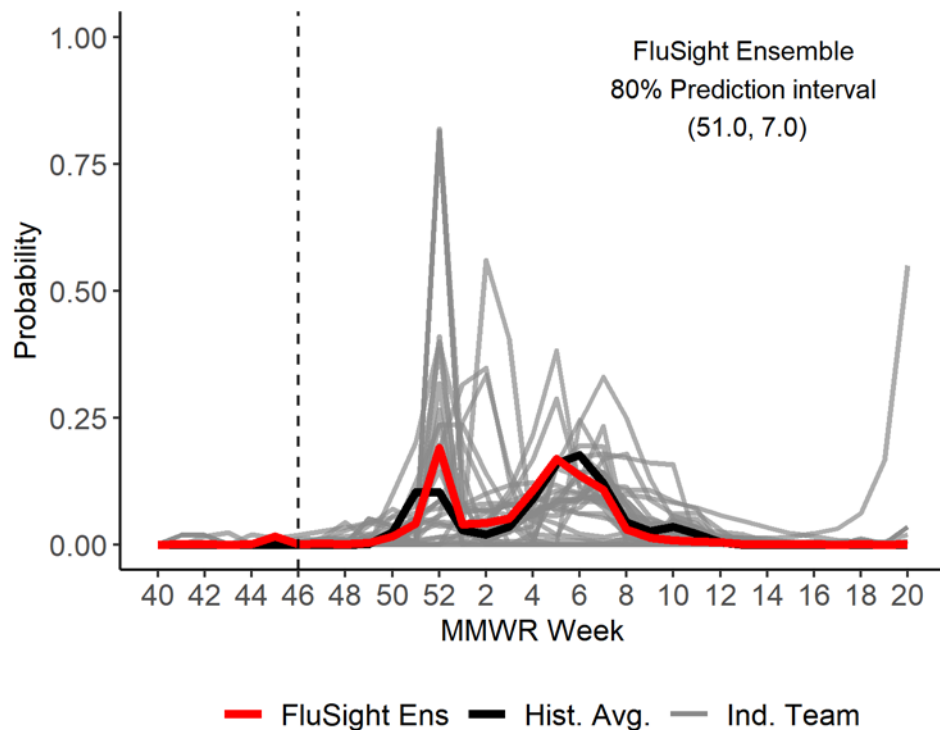


	Prior to Week 49	Week 49-52	Week 1-4	Week 5+	No onset
US -	62%	30%	4%	2%	2%
Reg 1 -	24%	45%	15%	6%	10%
Reg 2 -	70%	17%	5%	3%	6%
Reg 3 -	46%	38%	7%	4%	4%
Reg 4 -	55%	27%	7%	4%	7%
Reg 5 -	41%	39%	11%	6%	3%
Reg 6 -	39%	34%	10%	4%	13%
Reg 7 -	75%	19%	4%	2%	1%
Reg 8 -	35%	36%	22%	4%	4%
Reg 9 -	37%	44%	6%	6%	7%
Reg 10 -	37%	32%	11%	9%	11%



Season peak week

US Peak Week Predicted Probability

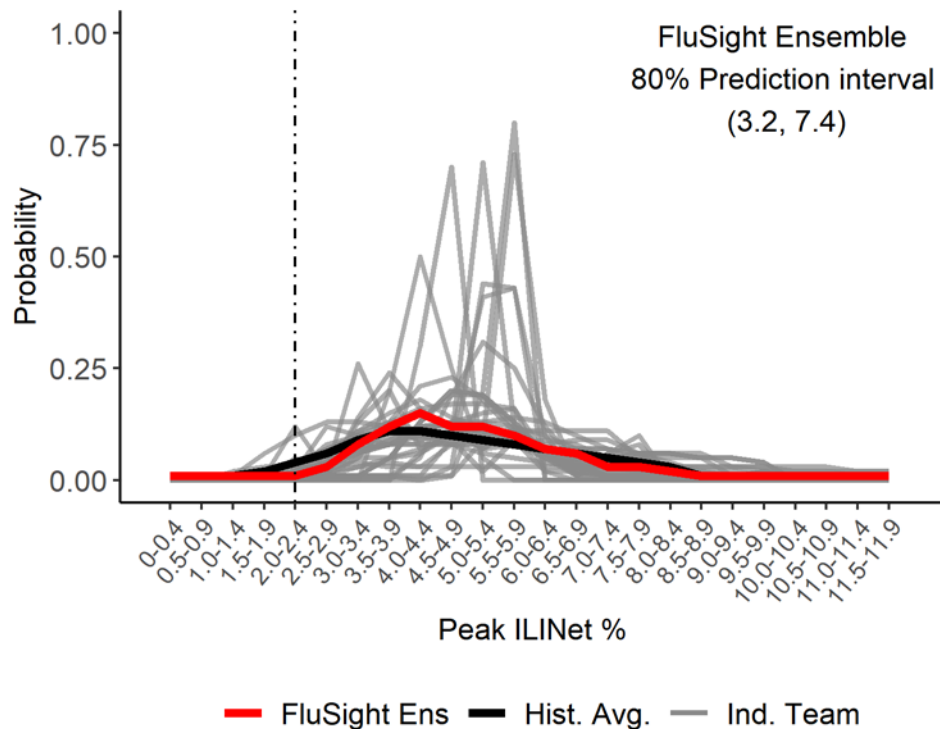


	Prior to Week 52	Week 1-4	Week 5-8	Week 9+
US -	27%	24%	44%	4%
Reg 1 -	20%	18%	54%	7%
Reg 2 -	30%	24%	34%	12%
Reg 3 -	22%	20%	48%	10%
Reg 4 -	33%	20%	40%	7%
Reg 5 -	27%	22%	38%	13%
Reg 6 -	40%	24%	28%	7%
Reg 7 -	38%	24%	34%	3%
Reg 8 -	31%	26%	35%	9%
Reg 9 -	28%	32%	29%	11%
Reg 10 -	16%	27%	35%	23%

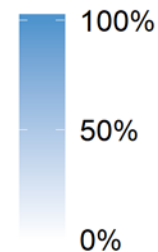
100%
50%
0%

Season Peak ILI %

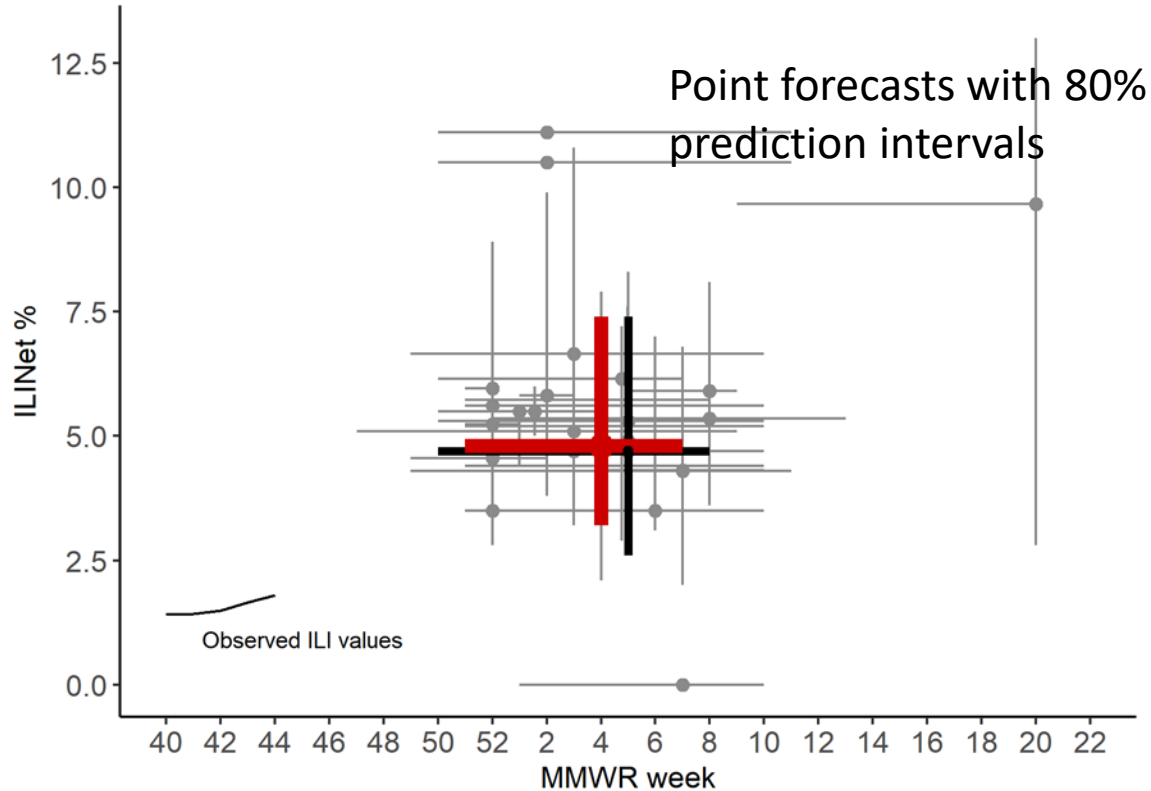
US Peak ILI % Predicted Probability



	≤ 4.4%	4.5-6.8%	6.9-8.8%	> 8.8%
US -	40%	46%	10%	4%
Reg 1 -	56%	25%	10%	9%
Reg 2 -	11%	34%	22%	32%
Reg 3 -	37%	35%	17%	11%
Reg 4 -	39%	35%	12%	14%
Reg 5 -	71%	23%	4%	2%
Reg 6 -	8%	30%	23%	38%
Reg 7 -	21%	31%	18%	29%
Reg 8 -	25%	45%	16%	15%
Reg 9 -	30%	56%	10%	4%
Reg 10 -	62%	24%	8%	6%



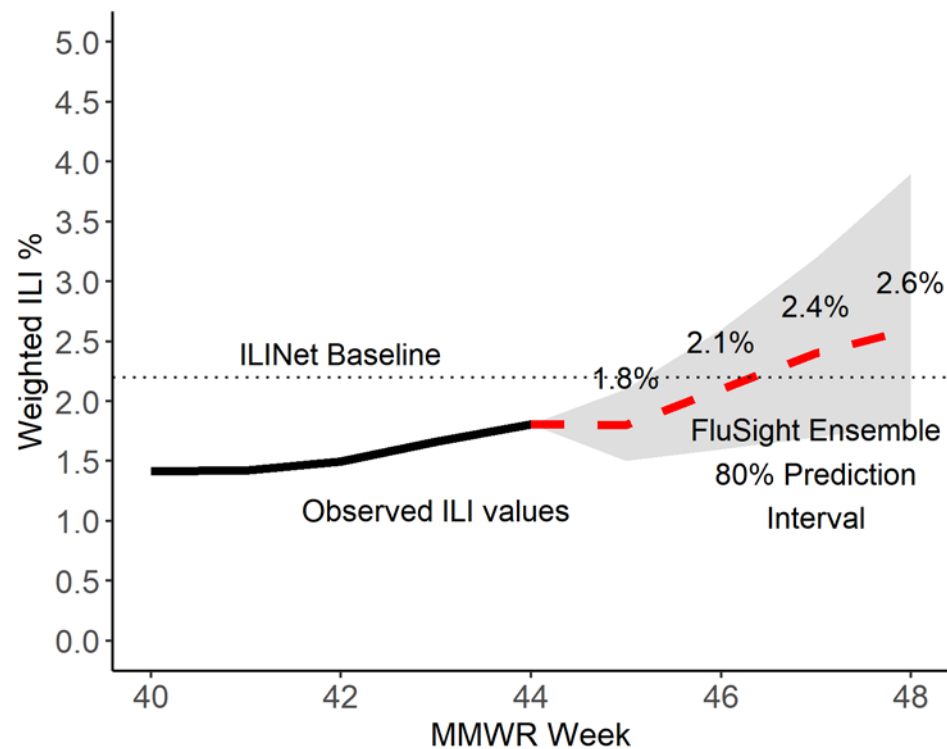
US Season Peak Week and Peak ILI %



FluSight Ens Hist. Avg. Ind. Team

Short-Term ILI Predictions

US Short-Term Predictions



Prob. ILI will be at or above baseline

	EW45	EW46	EW47	EW48
US -	8%	46%	67%	77%
Reg 1 -	2%	12%	24%	32%
Reg 2 -	36%	43%	58%	66%
Reg 3 -	6%	45%	51%	65%
Reg 4 -	13%	39%	55%	67%
Reg 5 -	4%	27%	46%	55%
Reg 6 -	10%	28%	43%	52%
Reg 7 -	64%	74%	71%	72%
Reg 8 -	13%	42%	44%	45%
Reg 9 -	9%	16%	28%	46%
Reg 10 -	4%	20%	37%	55%