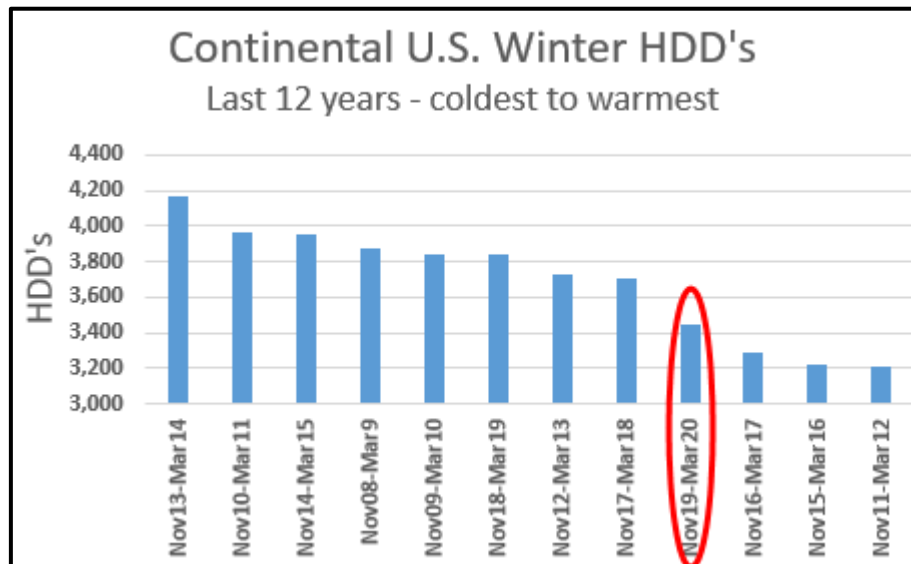
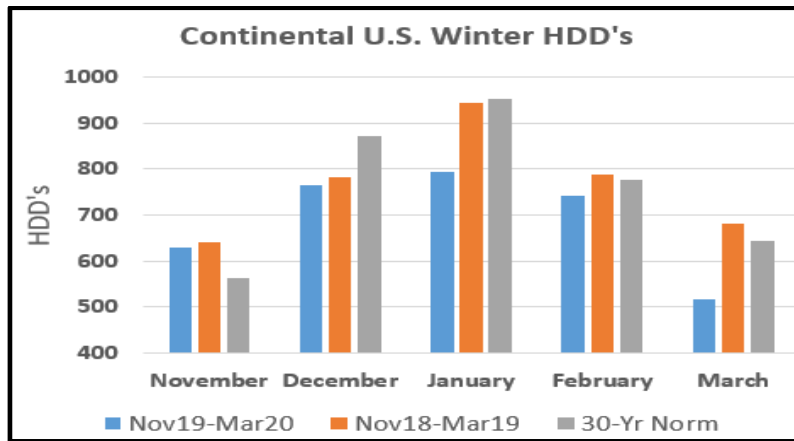


Winter 2019/20 Summary

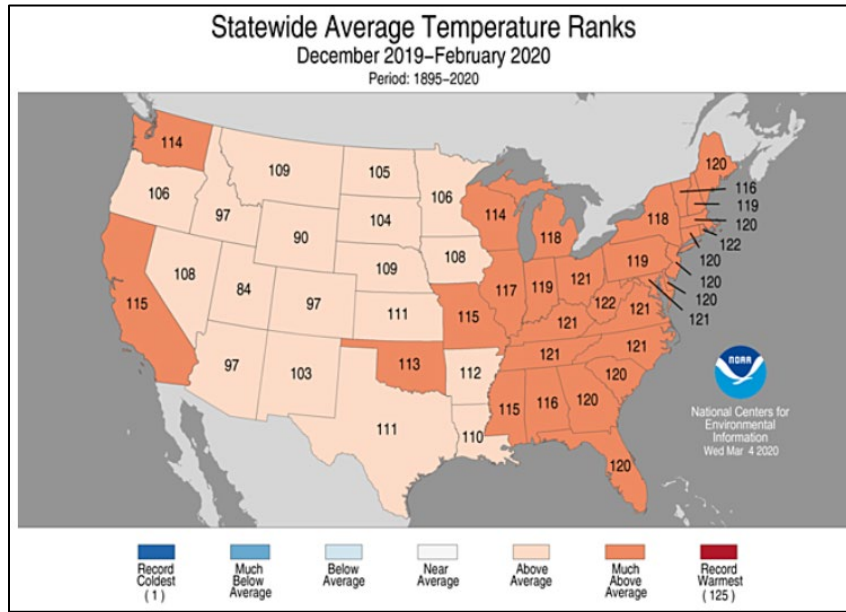
Going into the winter of 2019/20, none of the various forecasting services were predicting a particularly harsh winter. The consensus seemed to be a fairly normal winter with the bulk of the cold being weighted more towards the back half of the winter. In the end, the only month colder than normal turned out to be November, so it was a very warm winter overall.

As measured by heating degree days (HDD) on a gas-population weighted basis, the continental U.S. finished the winter 9.4% warmer than the 30-year normal and 10.1% warmer than the previous winter. This ranks the winter of 2019/20 as the 4th warmest in the last 12 winters.



The “heart” of the winter when temperatures are the coldest are the three months of December, January and February. Normally, about 68% of the total winter HDD’s fall in those three months and the temperatures are the lowest in mid-January. The weather in those three months more or less dictate the severity of the winter. Below is the map showing the temperature rankings by state for Dec19-Feb20 compared to 125 years of record

keeping. For clarity, the numbers listed on each state represent a scale of 1 to 125, where 125 is the warmest period of the 125 winters and 1 is the coldest in 125 years.



Locally here in the midcontinent area, it was similar to the rest of the country with warm weather. Below is HDD data for various cities across the U.S.

Omaha, NE			
Month	Actual HDD	Normal HDD	Percent Warmer / Colder than Normal
Nov-19	821	785	4.59%
Dec-19	1,004	1,209	-16.96%
Jan-20	1,188	1,286	-7.62%
Feb-20	987	1,033	-4.45%
Mar-20	639	791	-19.22%
Total to Date	4,639	5,104	-9.11%

Dubuque, IA			
Month	Actual HDD	Normal HDD	Percent Warmer / Colder than Normal
Nov-19	1,032	851	21.27%
Dec-19	1,080	1,310	-17.56%
Jan-20	1,263	1,427	-11.49%
Feb-20	1,204	1,156	4.15%
Mar-20	803	918	-12.53%
Total to Date	5,382	5,662	-4.95%

Minneapolis, MN			
Month	Actual HDD	Normal HDD	Percent Warmer / Colder than Normal
Nov-19	1,018	939	8.41%
Dec-19	1,289	1,404	-8.19%
Jan-20	1,371	1,531	-10.45%
Feb-20	1,264	1,236	2.27%
Mar-20	842	998	-15.63%
Total to Date	5,784	6,108	-5.30%

Oklahoma City, OK			
Month	Actual HDD	Normal HDD	Percent Warmer / Colder than Normal
Nov-19	545	435	25.29%
Dec-19	676	756	-10.58%
Jan-20	689	798	-13.66%
Feb-20	671	597	12.40%
Mar-20	310	409	-24.21%
Total to Date	2,891	2,995	-3.47%

Toledo, OH			
Month	Actual HDD	Normal HDD	Percent Warmer / Colder than Normal
Nov-19	776	635	22.20%
Dec-19	880	1,092	-19.41%
Jan-20	953	1,224	-22.14%
Feb-20	971	1,027	-5.45%
Mar-20	691	850	-18.71%
Total to Date	4,271	4,828	-11.54%

New York City, NY			
Month	Actual HDD	Normal HDD	Percent Warmer / Colder than Normal
Nov-19	627	520	20.58%
Dec-19	820	852	-3.76%
Jan-20	793	1,004	-21.02%
Feb-20	713	833	-14.41%
Mar-20	519	700	-25.86%
Total to Date	3,472	3,909	-11.18%

Chicago, IL			
Month	Actual HDD	Normal HDD	Percent Warmer / Colder than Normal
Nov-19	902	741	21.73%
Dec-19	955	1,155	-17.32%
Jan-20	1,076	1,279	-15.87%
Feb-20	1,002	1,044	-4.02%
Mar-20	680	841	-19.14%
Total to Date	4,615	5,060	-8.79%

Denver, CO			
Month	Actual HDD	Normal HDD	Percent Warmer / Colder than Normal
Nov-19	860	801	7.37%
Dec-19	964	1,086	-11.23%
Jan-20	937	1,025	-8.59%
Feb-20	1,063	909	16.94%
Mar-20	690	763	-9.57%
Total to Date	4,514	4,584	-1.53%

Louisville, KY			
Month	Actual HDD	Normal HDD	Percent Warmer / Colder than Normal
Nov-19	653	493	32.45%
Dec-19	641	841	-23.78%
Jan-20	716	933	-23.26%
Feb-20	706	732	-3.55%
Mar-20	372	538	-30.86%
Total to Date	3,088	3,537	-12.69%