Spanning USA

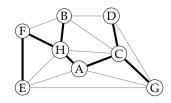
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Results

The following table summarizes our results:

Input file	MST total weight
USA-highway-miles.txt	16598
tinyEWG-alpha.txt	181

The MST we found in tinyEWG-alpha.txt can be drawn like this:



Implementation details

We implemented the algorithm of Prim, using Princeton's PrimMST.java and created the graph using Princeton's EdgeWeightedGraph.java.

The total running time for our implementation is: $O(n + m + m \log n)$.