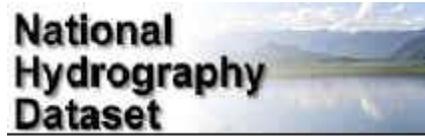


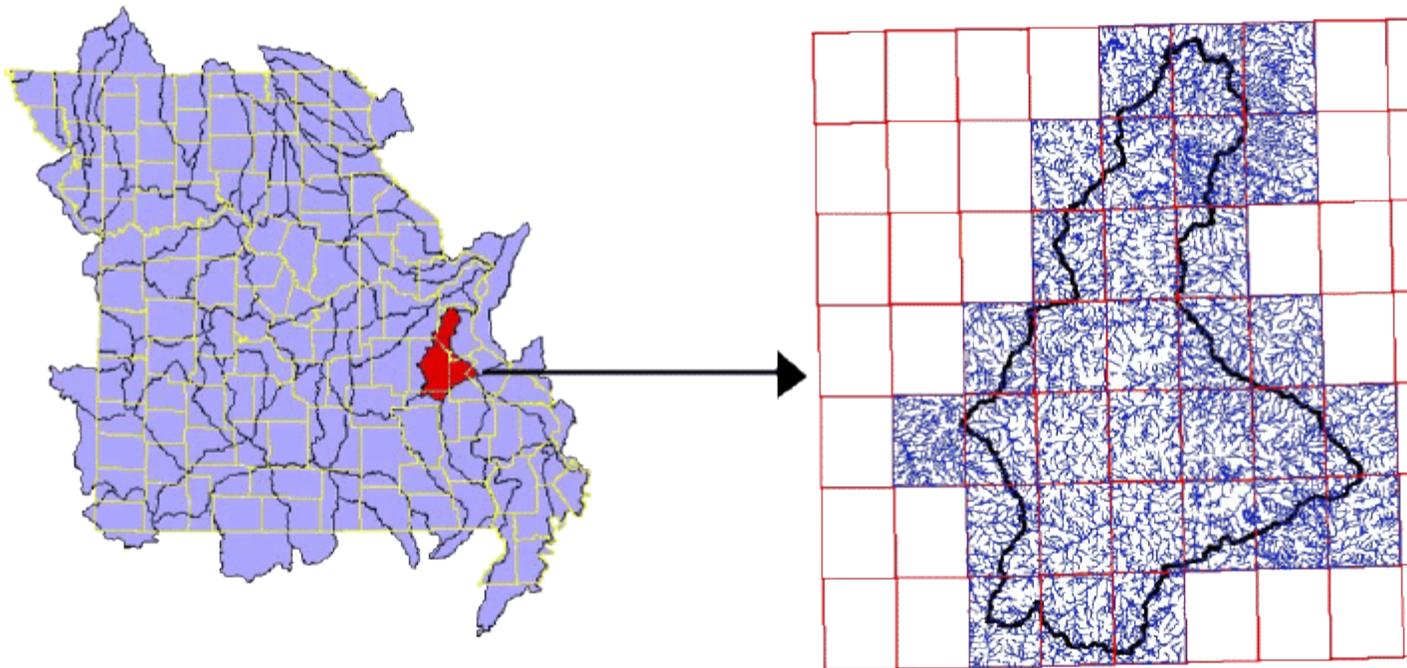
NHD Production Process



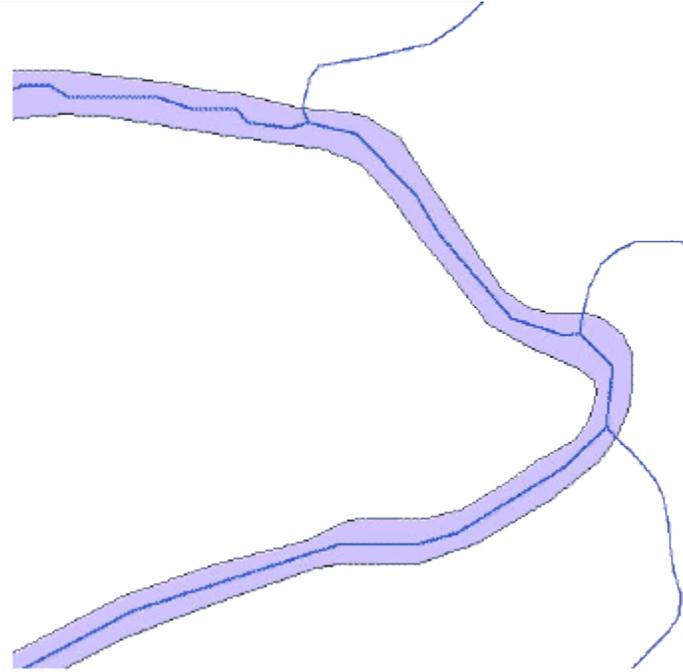
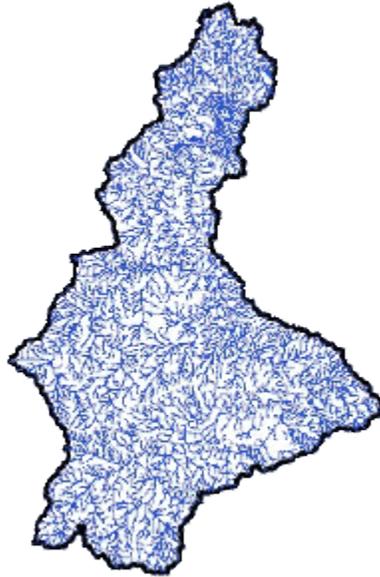
The NHD production process is broken into 3 steps: Pre Conflation, Conflation, and Post Conflation.

Pre Conflation

In Pre Conflation all 1:24,000 scale quads of linework included in a subbasin are paneled together to form a single coverage. From this paneled coverage, only streams falling within the subbasin boundary are selected and clipped to the CU boundary. In order to create a single-line network, centerlines are given to all waterbodies and rivers. Finally, all streams are given a single descriptive feature code (FCODE). These FCODES are used to identify perennial versus intermittent streams, shorelines, lakes, ponds, wetlands, etc.



Big River Basin
 07140104
 Subbasin with paneled
 1:24,000 quads

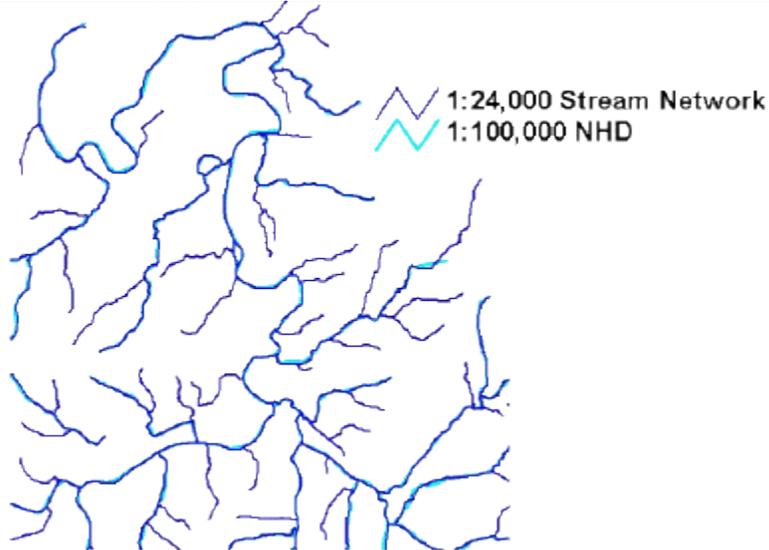


1:24,000 streams
clipped to subbasin
boundary

Big River polygon with centerline
that represents it in the stream network

Conflation

In Conflation attributes from the 1:100,000 scale NHD and 1:24,000 Geographic Names and Information System (GNIS) coverage are transferred to the 1:24,000 stream network (e.g., reach code, name, and GNIS ID). Any areas with significant flow changes or streams that have had their name updated are highlighted for correction in the Post Conflation process.



1:24,000 streams that have corresponding streams in the 1:100,000 dataset are given the 1:100,000 information. Streams not present in the 1:100,000 dataset are given new reach codes in the Post Conflation process.

Post Conflation

This final step is where streams that were not present in the 1:100,000 dataset are given reach codes and the flow table and reach cross reference tables are created and edited. The flow table details the relationship between streams (e.g. flow direction and whether they flow in or out of other streams). The reach cross reference table provides a link between the 1:100,000 and 1:24,000 datasets for those areas highlighted in the final steps of conflation. Using this table individuals who have data associated with streams in the 1:100,000 NHD will be able to find the corresponding stream sections in the 1:24,000 NHD if reach codes or stream names have been changed. Once Post Conflation is complete NHD files go through a final QA/QC and are then loaded into the national database.