Chapter HM

LAND USE AND OWNERSHIP, HANNA AND CARBON BASINS

By T.T. Taber and S.A. Kinney

In U.S. Geological Survey Professional Paper 1625-A.

Contents

Surface Ownership Map	HM-4
Map Information for the Hanna and Carbon Basins	
Map Information for the Hanna and Carbon Basins Subsurface Ownership Map	HM-3
Map Information for the Hanna and Carbon Basins Land Use and Land Cover Map	HM-2
Explanation of Cultural Information	HM-1

HM-1 Land Use and Land Cover; Hanna and Carbon Basins
HM-2. Subsurface Ownership; Hanna and Carbon Basins
HM-3 Surface Ownership; Hanna and Carbon Basins

EXPLANATION OF CULTURAL INFORMATION

Roads—These are selected roads from USGS 1:2,000,000-scale digital line graphs (DLG). These contain two types of roads.

Interstate—These are major roads that are part of the national interstate system.

Highway—These include State and other highways.

Railroads—These are railroads from USGS 1:2,000,000-scale digital line graphs (DLG).

City/Towns—These features represent general locations of cities and towns in the basin.

Latitude/Longitude Tic Marks—These tics show locations of key parallels and meridians that pass through the basin.

MAP INFORMATION FOR THE HANNA AND CARBON BASINS LAND USE AND LAND COVER MAP

Sources—U.S. Geological Survey (USGS), Land Use and Land Cover Geographical Information Retrieval and Analysis System (GIRAS) files. 1:250,000 scale. The original maps were compiled from data collected between 1972 and 1979. Land Use and Land Cover Digital Data from 1:250,000 and 1:100,000 Scale Maps, Data Users Guide. 1990. Reston, Virginia. A complete description of these files can be obtained from the USGS at:

http://edcwww.cr.usgs.gov/doc/edchome/ndcdb/ndcdb.html

See figure HM-1.

Description—The land use and land cover maps were simplified from their original format for increased readability. The narrowly defined categories were grouped into the following categories:

Agriculture—This category includes cropland, pastures, hay fields, and other agriculture.

Barren Land—This category includes sandy areas, bare rock, and/or bare ground.

Forest—This category includes deciduous and/or evergreen forest land.

Rangeland—This category includes shrub, brush, and/or herbaceous rangeland.

Urban/Industrial—This category includes residential, commercial, and/or industrial land uses.

Water—This category includes rivers, streams, and lakes.

MAP INFORMATION FOR THE HANNA AND CARBON BASINS SUBSURFACE OWNERSHIP MAP

Source—The digital data for this graphic were compiled by the Montana BLM office and the USGS Energy Team from 1:24,000-scale BLM ownership maps.

Description - This map gives an overview of subsurface areas managed by Federal agencies within the Hanna and Carbon Basins.

See figure HM-2.

Federal All Minerals–The federal government owns the rights to all minerals. This includes coal, oil, gas, and other mineral rights.

Federal Coal–The federal government owns the rights to coal minerals only.

Private/State/Other-All mineral rights are Privately-held or State-held.

MAP INFORMATION FOR THE HANNA AND CARBON BASINS SURFACE OWNERSHIP MAP

Source—The digital data for this graphic were compiled by the U.S. Bureau of Land Management (BLM) and the USGS from 1:24,000-scale BLM ownership maps.

Description - This map gives an overview of surface areas managed by Federal agencies within the Hanna and Carbon Basins.

See figure HM-3.

U.S. Bureau of Land Management—These are comprised of lands administered by the BLM.

U.S. Bureau of Reclamation (BOR)—These are comprised of lands administered by the BOR.

Private—This category is composed of all other ownership types.

Water—Water bodies are identified, but ownership is not designated.

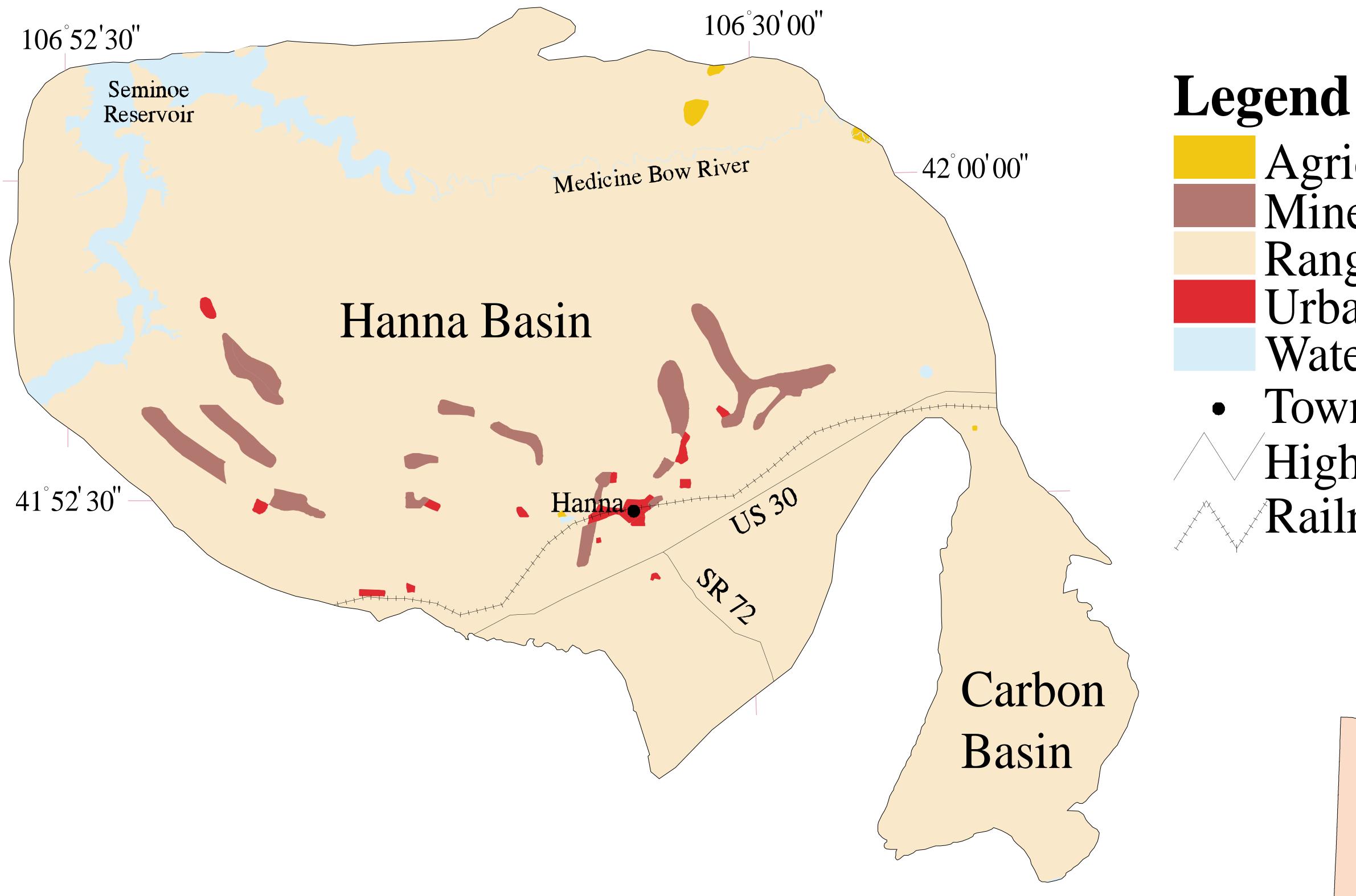




Figure HM-1. Hanna and Carbon Basins Land Use and Land Cover



Agriculture Mine Reclamation Areas Rangeland Urban/Industrial Water Town Highways Railroads



Hanna and Carbon

Wyoming



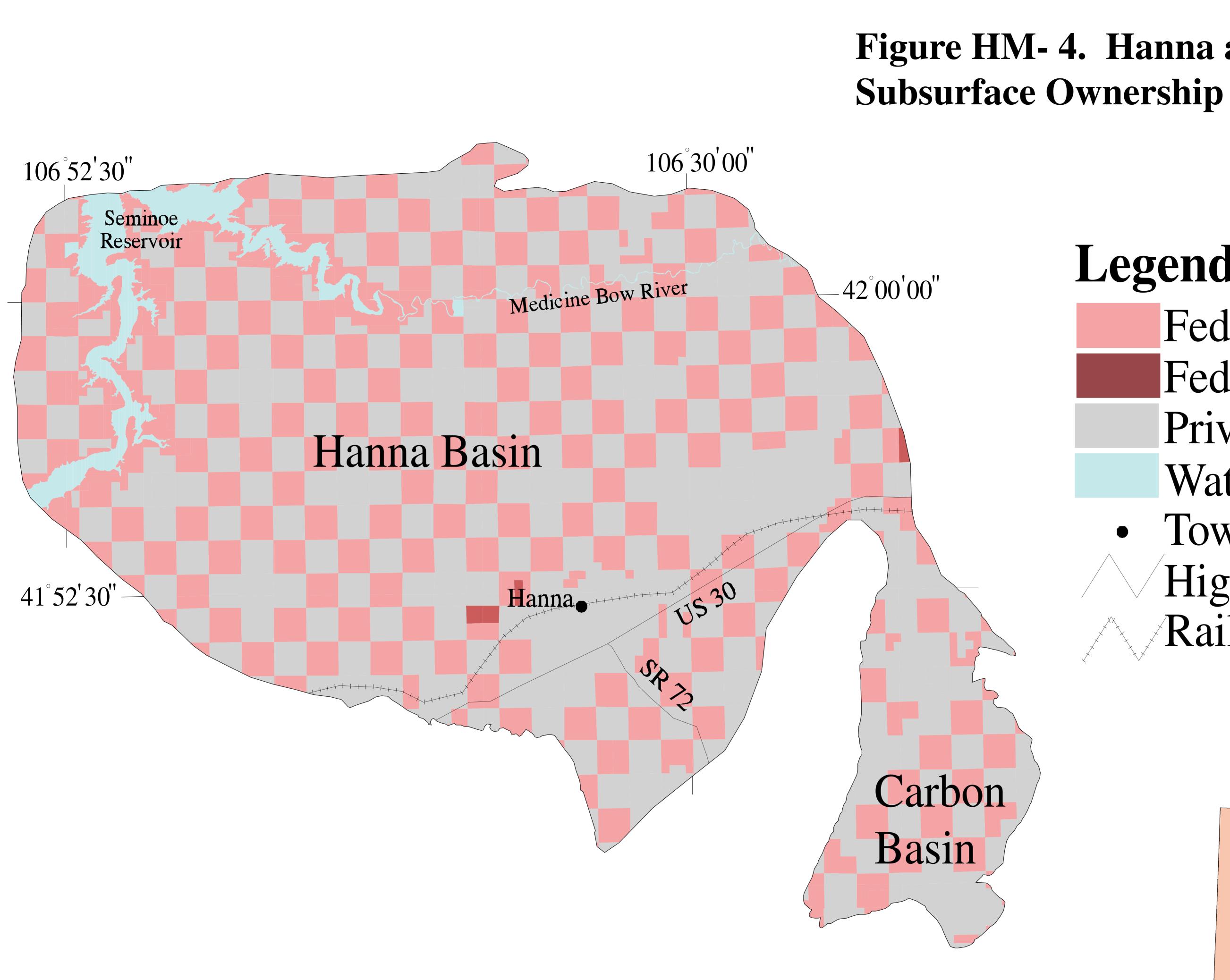






Figure HM-4. Hanna and Carbon Basins

Legend Federal All Minerals Federal Coal Private/State/Other Water Town Highways Railroads



Wyoming

Hanna and Carbon _____ Basins





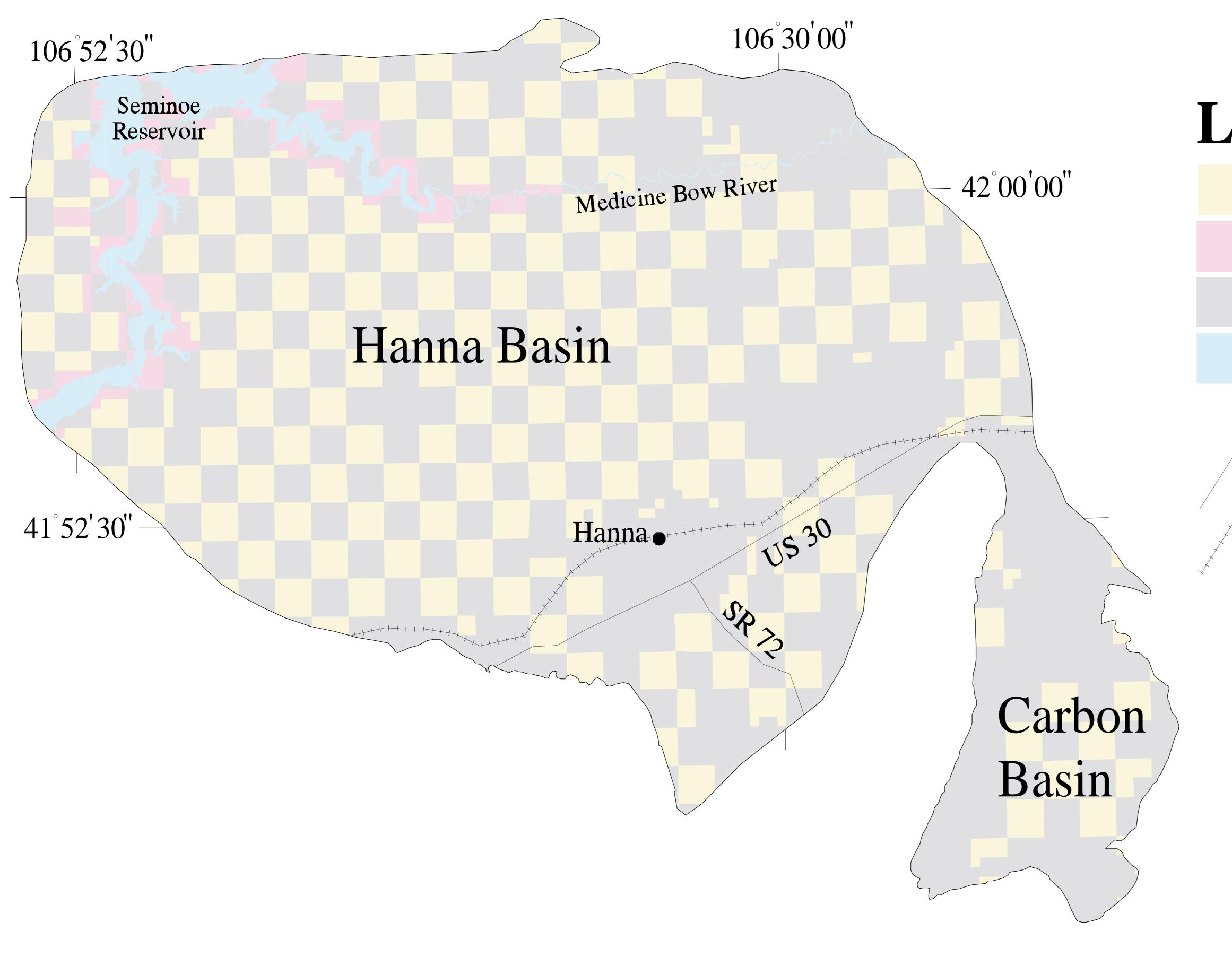




Figure HM-3. Hanna and Carbon Basins Surface Ownership



