

3.7 PLAN MAP SERIES

Mapping was a large part of the Inventory. All the maps produced in the Inventory are together called the Plan Map Series.

Maps were developed for 21 different themes (the main topic or subject of a map). As part of the process of making the maps, certain statistical information was abstracted from the maps. The different map themes are listed below along with statistical information.

For each map theme, a county-wide map was prepared as well as more detailed maps for major areas of the county (Greybull Valley, Nowood Valley, Shell Valley, and Shoshone Valley). Consequently, there are 105 separate maps the Plan Map Series.

Due to the large number of maps and their large sizes, only a sample of the maps is presented in the land use plan. The entire set of maps can be view on the project website, www.bighornplan.info.

Below is a description of all the maps in the Plan Map Series as well as relevant statistical information derived from each map.

Agricultural Land Use: Represents all deeded land used for agricultural production, as determined by county assessor's records.

Number of Agricultural Parcels (combined by same owner)	985	
Total Acreage in Agricultural Parcels	313,136	acres
Percent of County Land Area	15.7	%

Agricultural Parcel Size: Shows where agricultural land remains in large tracts and where it has been broken into small tracts.

Average Parcel Size	318	acres
Median Parcel Size	138	acres
1/4 of Parcels Smaller than	50	acres
3/4 of Parcels Smaller than	326	acres
Largest Parcel	8,654	acres

Irrigated Land: Shows all irrigated land in the county, based on Wyoming State Engineer's Office data.

Total Acreage of Irrigated Land	174,940	acres
Percent of County Land Area	8.6	%

Soil Capability - Irrigated Agriculture: Represents the capability class of soils for irrigated agricultural production.

Capability Class 2 Soils	10,303	acres
Capability Class 3 Soils	77,130	acres
Capability Class 4 Soils	168,238	acres
Capability Class 6 Soils	4,635	acres

Soil Capability - Non-Irrigated Agriculture: Represents the capability class of soils for non-irrigated agricultural production.

Capability Class 4 Soils	11,848	acres
Capability Class 6 Soils	371,742	acres
Capability Class 7 Soils	96,487	acres
Capability Class 8 Soils	43,695	acres

Big Game Habitats: Represents the crucial habitats of big game species in the county, based on Wyoming Game and Fish Department data.

Antelope	142,241	acres
Big Horn Sheep	18,396	acres
Elk	136,577	acres
Mule Deer	317,514	acres

Flood Plains: Represents the locations of the 100-year flood plains in the county, based on Federal Emergency Management Agency data.

Total Acreage of Flood Plains	88,239	acres
Percent of County Land Area	4.4	%

Groundwater Sensitivity: Represents the locations of areas based on the sensitivity of the groundwater below to pollution on the land surface above, based on Wyoming Department of Environmental Quality data.

Low Sensitivity	77,125	acres
Medium-Low Sensitivity	361,638	acres
Medium-Low Sensitivity	576,935	acres
Medium-High Sensitivity	585,214	acres
High Sensitivity	417,518	acres

Geohydrologic Setting: Represents the general availability of groundwater, based on Wyoming Department of Environmental Quality data. (Higher rating means aquifers have higher water yields.)

RATING	ACRES
< 3.00	281,267
3.00 - 4.00	498,841
4.00 - 5.00	565,384
5.00 - 6.00	140,190
6.00 - 7.00	92,454
7.00 - 8.00	15,063
8.00 - 9.00	15,028
> 9.00	407,584

Land Slope: Represents the slope of land in percent (rise over run) of all land in the county.

10 percent or lower slope	1,166,071	acres
10 to 25 percent slope	548,286	acres
25 percent or higher slope	303,760	acres

Road Network: Represents the location and type of roadways in the county, based on Big Horn County data.

Water Systems: Represents the locations of the major public water supply systems in the county.

Services Efficiency: This map series represents the efficiency in providing essential public services to different locations based on distance from public schools, fire protection, hospitals, and law enforcement. The maps illustrate the concept that it is usually more cost-efficient to provide public services at locations close to service centers.

Current Land Use: Represents the current land use of deeded land in the county, based on Big Horn County Assessor data.

Agriculture	2,061 parcels	345,016 acres
Vacant Commercial	3 parcels	91 acres
Commercial	106 parcels	1,093 acres
Vacant Industrial	155 parcels	43,330 acres
Industrial	20 parcels	1,117 acres
Vacant Residential	132 parcels	3,406 acres
Residential	1,320 parcels	14,777 acres
Local Tax Exempt	76 parcels	3,597 acres

Land Parcel Sizes: Shows where deeded land remains in large tracts and where it has been broken into small tracts, based on Big Horn County Assessor data.

Less than 3 acres	738 parcels
3 to 15 acres	668 parcels
15 to 40 acres	624 parcels
40 to 100 acres	761 parcels
100 to 300 acres	781 parcels
More than 300 acres	337 parcels

Land Surface Management: Represents the surface management status (federal lands, state lands, deeded lands, etc.) of all land in the county.

National Park Service	26,725	1.3%
Department of Defense	3543	0.2%
Bureau of Land Management	1160613	57.2%
Bureau of Reclamation	20325	1.0%
Forest Service	268852	13.2%
Forest Service Wilderness	82375	4.1%
State	83056	4.1%
Private	383,614	18.9%
TOTAL	2,029,102	100.0%

Population Density: Represents the number of residents per square mile in all locations in the county (year 2000; includes towns).

PERSON PER SQUARE MILE	CENSUS BLOCKS	ACRES
Less than one	2,215	1,761,613
One to 6	109	142,238
6 to 60	265	110,106
60 to 120	38	3,172
120 to 600	86	2,755
Over 600	345	1,909

Subdivisions: Shows the location and sizes of major subdivisions and old town sites in the county.

Land Tenure: Represents which lands are owned by local and non-local owners, based on Big Horn County Assessor data.

Big Horn County Owner	2,696	parcels
Wyoming Owner (excluding Big Horn County)	455	parcels
Out-of-State Owner	503	parcels