Estimated Project Timeline Big Horn, Yellowstone, Treasure, Rosebud Counties
Cities of Hardin and Forsyth, Town of Lodge Grass Floodplain Maps Update

Timeframes are estimated and may change during the project

2021	late 2022 early 2023	mid to late 2025	mid 2026	2027-2028
Measurements are made of the topography around the river, along with any culverts, bridges, and road crossings. LiDAR uses an airplane to collect ground elevation over a large area, and ground survey supplements the airborne data. Flood flow data determine how much water there will be in a river during a flood event.	The elevation and survey data are combined with the flood flow data to determine where the water will go when it overflows the channel and how far it will spread out. The area shown to be underwater and at high risk is mapped as the regulatory floodplain.	Draft data is delivered to the communities. Public open houses will be conducted for landowners to review the information.	FEMA Preliminary Maps are produced and ready for public review and comment period. A second public open house is usually conducted to review the information. 90-day official comment & appeal period held.	FEMA Flood Insurance Rate Maps finalized.
Data gathering	**Engineering and floodplain modeling**	**Draft Data available public review**	**Preliminary Data public comment and appeal period**	**Flood Insurance Rate Maps become effective**

Flood Study Conducted

4 steps of a flood study.

1) Survey & LiDAR   3) Hydraulics (engineering)
2) Hydrology (flood flow)   4) Mapping (delineation)

Resiliency and Mitigation efforts
Once new maps become effective the community can determine what mitigation efforts it would like to pursue to reduce flood risks.

Public Review
A public open house will be held after draft data release and before preliminary map release.
During this time public comments are encouraged. There will be an official 90-day appeal period after the maps become preliminary.

Community work

Update floodplain ordinance.

Prepare initiatives to reduce flood risk.