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Appendix A

A Gallery of Truss Bridges

Description

The Gallery of Truss Bridges is a collection of photographs showing thirty truss bridges from all over the United States. These bridges represent a wide variety of configurations and sizes. Each photo is identified with the name and location of the bridge. In a few cases, two photographs of the same bridge are provided. In these cases, the second photo contains an interesting detail or alternate view of the structure.

All of these photographs were obtained from the Historic American Engineering Record (HAER), a division of the National Park Service, U. S. Department of the Interior. HAER is a long-range program to document significant engineering and industrial works in the United States with measured and interpretive drawings, photographs, and written histories.

How to Use this Resource

Here are a few suggestions for using the Gallery of Truss Bridges to enhance your understanding of structures and engineering design:

- Select any bridge from the Gallery, and identify its major component parts, using the illustration on page 1-3 as a guide. (Learning Activity #1)
- Identify the configuration of each bridge, using the illustration on page 1-6 as a guide. Also note whether each bridge is a *through truss*, *deck truss*, or *pony truss*. (Learning Activity #1)
- Select a bridge from the Gallery, then model it with the West Point Bridge Designer software, and optimize your design. (Learning Activity #4)
- Select a bridge from the Gallery, then design, build, and test a cardboard model of it. (Learning Activity #5)



1. State Highway Bridge No. 16 over the Kickapoo River, Vernon County, WI



2. Rock Island Bridge, Rock Island Arsenal, IL



3. Albion Bridge over Blackstone River, Cumberland, RI



4. Railroad Bridge over Lin Branch Creek, Clinton County, MO



5. Hamden Bridge over Raritan River, Hunterdon County, NJ



6. State Rt. 256 Bridge over Middle River, Augusta County, VA



7. Denver South Park & Pacific Railroad Bridge, Romley, CO



8. Harrison Road Bridge over Great Miami River, Miamitown, OH



9. Wabash River Bridge, State Rt. 316, Wells County, IN





10. Cheyenne River Bridge, County Rd. 46, Niobrara County, WY



11. New Fork River Bridge, County Rd. 136, Sublette County, WY



12. Gospel Street Bridge, over Lick Creek, Paoli, IN



13. Boston & Maine Railroad Bridge over Connecticut River, Northampton, MA



14. Boston & Maine Railroad Bridge, with State Route 9 highway bridge in background, Northampton, MA



15. Arvada Bridge over Power River, County Rd. No. 38, Sheridan County, WY



16. Baltimore & Ohio Railroad Bridges, Cattaraugus County, NY



17. Big Island Bridge over Green River, County Road No. 4, Sweetwater County, WY



18. Bridge over Blackledge River, Colchester, New London County, CT



19. Enterprise Bridge over Smoky Hill River, Highway K-43, Enterprise, Dickinson County, KS



20. Four Mile Bridge over Big Horn River, County Road No. 173, Hot Springs County, WY



21. Main Street Bridge over Yellow Creek, Poland, OH



22. North Platte River Bridge, Fort Laramie, Goshen County, WY



23. Shell Creek Bridge, County Road 57, Big Horn County, WY



24. Powder River Bridge, County Rd. 269, Sheridan County, WY



25. Roaring Run Bridge, State Route 657, Bedford County, VA



26. Powder River Bridge, Arvada, Sheridan County, WY



27. Shoshone River Bridge, County Road 111, Big Horn County, WY



28. Wind River Bridge, Wyoming Highway 132, Fremont County, WY



29. Navaho Bridge, Lees Ferry, AZ



30. Marble Fork Bridge, Sequoia National Park, CA