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16. Abstract The purpose of this report (project) was to develop an interactive decision support system software “toolkit” which will assist managers of Federal lands in identifying potential transportation solutions for the lands for which they have responsibility. This decision support system is a computer application that simulates the judgment and behavior of a human who has specialized knowledge in a particular field. A decision support system contains a knowledge base with a set of rules reflecting accumulated experience particular to every situation that is described to the software program. Decision support systems may serve as surrogates for human expertise, though generally they serve as supplemental information. For this project the support system is intended to supply specialized knowledge to land managers, FLH staff and others, in assessing transportation challenges and providing potential solutions. The toolkit will generate an initial set of ideas to help assess the transportation challenges within the Federal lands, which should help educate the manager about potential solutions to the challenges. Potential solutions are described in a series of fact sheets. These fact sheets provide a definition of each solution, reference areas where the solution has been implemented (focusing on Federal lands wherever possible), review implementation requirements, highlight advantages and disadvantages, present order of magnitude cost information, and describe any other issues specific to the solution (system). The toolkit also provides definitions, an overview of the planning process for transportation projects, and links to other references/resources.			
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