The increasing rate of inflation with flat taxes for gasoline used for maintaining and reconstructing our nation’s highways has continued to place budgetary limitations. Often the low volume roadways are lower priority and lack the budgetary resources for maintenance. Iowa State University has worked with the Iowa Department of Transportation and the asphalt paving industry in identifying strategies that would provide extended pavement life to low volume roads that would be beyond the 3 to 7-year pavement maintenance typically provides but not at the higher costs of pavement rehabilitation or reconstruction. A two-phase study examining multiple strategies for extending the pavement life of a full-depth asphalt pavement and a composite pavement on Iowa 93 and US-65 were done. Multiple holding strategies were identified that extends the pavement life more than 7 years at a cost of less than $150,000 per lane-mile.