

Sprinkle Treatment
(Bristowes Spreader)

Final Report

Safety is an important aspect of highway design. Texture and frictional properties are important characteristics in providing safe roadways. Longevity of desirable frictional properties is highly dependent on the aggregate within asphalt pavement. Iowa unfortunately has areas of the State where the locally available aggregate will not give long lasting desirable frictional properties. Iowa has utilized sprinkle treatments to improve the safety of many new asphalt concrete pavements. A summary of data for sprinkle treatment projects is:

Dickinson F-9-3(9)--20-30

Deemed a failure because of raveling and was replaced with a sand seal surface.

Polk-Jasper - F-65-4(22) & F-65-4(19)

The sprinkle aggregate is being well retained in the asphalt surface.

The average texture depth as measured by the Silly Putty Test is 0.035 of an inch.