

# Technical Bulletin

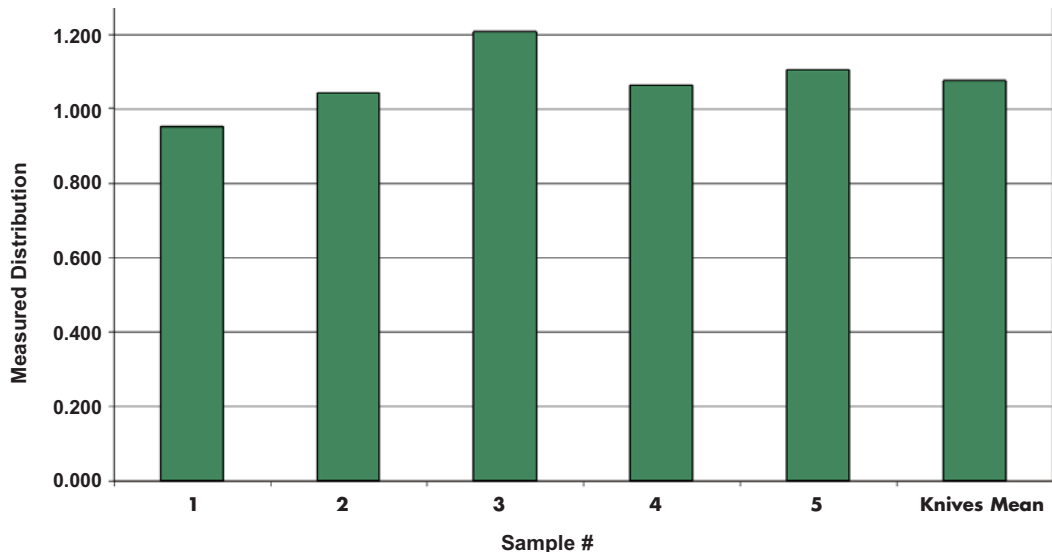
## Accuracy of New Low Volume Application System

Recently a new liquid applicator offering very low application rates became available in the USA (the DE 1000 from Dohrmann Industries). The application rates suggested are very low (1.28 oz per ton, approximately 35 ml/ ton), with the product applied directly using a tube entering the chopper box, i.e. no spray nozzle used. The 10 gallon insulated tank provided as a holding tank for the mixed inoculant will treat 1000 tons of forage per fill at the rate of 1.28 oz/ ton.

Since we had previously validated sprayer applicators as providing even distribution at 250 ml/ tonne, but failing to do so at 125 ml/ tonne (Technical Bulletin F4096a), we decided that we should validate the new system prior to making any recommendation. Our trials were carried out by Limin Kung at the University of Delaware on c. 43% DM forage. The graph below shows that by applying the product directly at the knives the distribution achieved was very even, with only a slight deviation from the mean (SD = 0.093).

For Buchneri products, because of the higher cell concentration in the products the application rate should be increased to 2.56 oz/ ton (70 ml/ tonne) and the 10 gallon insulated tank will treat 500 tons of forage per fill.

Product distribution using low volume liquid application (35 ml/ ton)  
- product applied at knives -



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