In our pasture experiments at the Storrs Station, we have employed Armsby’s net energy values. The Armsby and Kellner standards are based on the amounts of net energy supplied by a feed and in this respect are an advance over standards based upon digestible nutrient values. However, it is our belief that the use of any of these standards would be of great help in presenting a comprehensive picture of the effects of various practices on the production of pastures.—B. A. BROWN and G. C. WHITE, Storrs Agricultural Experiment Station, Storrs, Conn.

IMPROVED MODIFICATION IN THE COLUMBIA DRILL

During the winter of 1931-32 an attempt was made to modify the Columbia drill for seeding oats and barley. One of the cylinders with small holes (No. 4-12) was used and redrilled, making a total of eight holes with sloping sides 3/8 inch in width and 3/8 inch in depth. This gave a satisfactory modification for seeding oats and barley. The sloping sides to the holes are necessary to prevent kernels from lodging. Laboratory tests with the machine with different varieties of oats and barley with varying sized kernels gave such satisfactory results that it was used to seed the entire oat and barley nurseries at Logan, Utah, in 1932, and was also adopted at each of the six substations.

Soon after these modifications were made, an article appeared in this Journal (Vol. 24: 328-329) entitled “Modifications in the Columbia Drill for Seeding Oats and Barley.” The writer suggested a modified cylinder in which the pairs of alternate holes were united by chiseling away the intervening metal.

In order to insure uniform seeding, the holes should be of uniform size. This can be more easily accomplished by boring than by chiseling, and since the cost of boring an entire cylinder is nominal (40 cents), this method is to be preferred. The cylinder shown in Fig. 1 has been used with success in eight Columbia drills. Where clean seed is used, there has been no difficulty in getting good uniform stands.—R. W. WOODWARD and D. C. TINGEY, Utah Agricultural Experiment Station, Logan, Utah.

A READILY REMOVABLE LABEL HOLDER FOR NURSERY AND ADVANCED PLATS

A note appeared in the February (1930) issue of this Journal giving a description of a nursery plat label holder. The writer secured a sample of this label holder from Mr. Swanson, the author of the article; but it was apparent that some changes might be effected

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