the purity (per cent. of seed named in relation to total weight) by the germination (per cent. of seed named which will grow) the product is a figure somewhat more useful than either number alone.

Suppose there are two samples of Kentucky bluegrass to choose from; the first is 80 per cent. pure and germinates 70 per cent., and the other is 90 per cent. pure and germinates 60 per cent., and both are priced the same. Which is the better one to purchase? The product is 56 per cent. for the former and 54 per cent. for the latter, making the former slightly the better buy unless the weed seed content is greater.

Assume that the 56 per cent. sample was priced at 24 cents and the 54 per cent. one at 20 cents a pound. Which one is the cheaper? By dividing 24 by 56 one gets 43 cents a pound for the pure seed that will grow in the first case and the 20 divided by 54 equals 37 cents, the real price of the seed in the second. Obviously the latter seed is the better one to purchase.

The arithmetic may seem cumbersome but it offers a way to decide a somewhat difficult choice at times. This is another reason why it is much the safest policy to purchase the seeds as individual kinds rather than the fancy-sounding branded mixtures. The State law seldom compel the seedsmen to state the proportions of a mixture and there continues to be a practice of substituting a large percentage of temporary grass for the more expensive permanent grass seed in these mixtures. If a mixture of 95 per cent. Kentucky bluegrass and 5 per cent. colonial bent is desired, then buy the seeds separately and mix them or have the seedsmen do it for you.

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A new suction machine built like a powerful vacuum sweeper has been developed by the Kansas State College and the Experiment Station at Hays. It has collected as high as 95 per cent. of the seed, or an average collection of about 64 per cent.

The collecting nozzle in the most successful models is about 6 feet long and 4 inches wide. A light chain dragging ahead of the nozzle loosens the seed from the stems or from the dirt where it may be slightly imbedded. Results are obtained when the grass is closely clipped before the seed is collected. The most successful method of harvesting the seed is by this latter method is described in The Bulletin of the United States Golf Association Green Section, Vol. 13, p. 144.

SEASONAL REMINDERS

Fall Fertilizing: August is the month to make plans for fall fertilizing programs. Orders for fertilizer should be placed in sufficient time to have the material delivered ready for distribution in early September. Kentucky bluegrass and the other permanent turf grasses grow vigorously during the fall months if they are provided with ample food and moisture. Some golf clubs are able to supply both the food and moisture for fairway turf but most clubs are still dependent on nature for fairway irrigation. The drought this summer has done much damage to turf and if it is possible to purchase fertilizer it should be applied early in September so as to take full advantage of the fall rains. Expenditures for fertilizer this season will prove to be money well spent on practically any course.

Fertilizers should be purchased primarily on the basis of their plant food content. Fortunately for golf clubs, the day is rapidly passing when fertilizers are purchased without regard to the analysis. It should be remembered that all experimental work to date on turf has shown that nitrogen is the most important plant food to be considered in the purchase of fertilizers.

VACUUM MACHINE FOR HARVESTING BUFFALO GRASS SEED

Western Clubs where Buffalo grass is used on fairways and lawns will be interested in a report of improved methods of harvesting the seed. The seed of this grass has been difficult to obtain and is in great demand for the planting of abandoned wheat land as a means of controlling erosion by wind and rain.

Buffalo grass has demonstrated resistance to sun and wind and the ability to make a quick comeback when conditions are favorable. Buffalo grass leads the list of grasses which can best be used to regrass this idle and eroding land. It is also the best grass for lawns and fairways in the Great Plains territory where it is adapted.

The seed is found only on female plants and grows close to the ground among the early leaves. Harvesting with a grass seed stripper, or by cutting and threshing later, is done with other grasses, is out of the question in the case of Buffalo grass.

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Soil Samples: August is a good month in which to sample soils for testing as an aid in deciding upon the best fertilizer programs. If laboratory tests have not been made recently it would be well to have some made before deciding on the fall fertilizing program. The Green Section will be glad to make such tests for any club that is a member of the United States Golf Association. Samples should be collected and shipped as directed elsewhere in this publication. Examinations will be made as promptly as possible, and as complete reports and recommendations as are justified from the samples will be submitted to the club. We promise no elaborate tests or exaggerated deductions.

Use of Lime: This is the best season to determine the need for lime in turf. Laboratory tests will serve as a useful guide in determining whether soil is ex-