

Grau

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Is there something as good or better?

(Virginia)

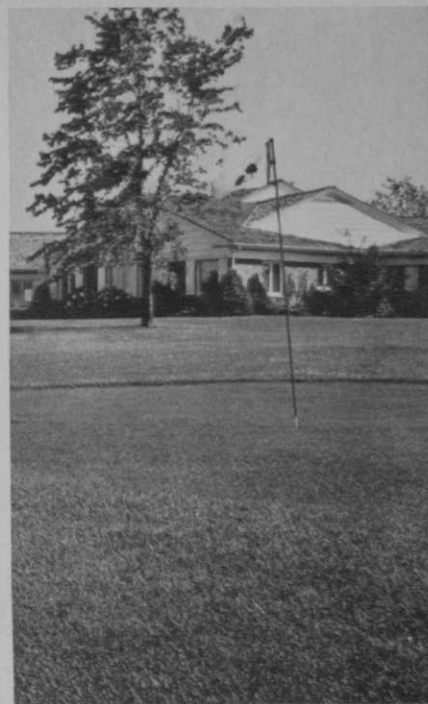
A.—Mist blowers do not seem to be very practical where air currents are a problem. Drift is a source of loss and a potential hazard where finely-divided droplets are concerned. Hydraulic seeders (Finn, Bowie, Reinco) appear to me to be extremely practical on the golf course. They can be used to apply fertilizers, lime, fungicides, herbicides, seed, wood cellulose fiber mulch on new plantings of seed or stolons, and even for planting grass vegetatively. Hydraulic seeders are multi-purpose. The mist blower must operate in a much narrower range.

Q.—We have heard many times that phosphorus and arsenic conflict, particularly in the control of

Poa annua. When phosphorus levels are high it seems that arsenicals work rather poorly. Conversely, arsenic becomes more effective when P levels are low. What is the explanation?

(Pennsylvania)

A.—Phosphorus and arsenic are very close together in the Periodic Table, a chart of known chemical elements. Their atomic weights are very similar and can replace each other in many chemical combinations. In the plant cell, P is essential for growth and development. *Poa annua* thrives on a high P diet. Most turfgrasses need very little P. When P is deficient and As (arsenic) is introduced, the grass plant takes in As. In the cell this heavy metal element precipitates the proteins which then cannot be translocated to the growing points. The plant yellows, becomes stunted and eventually dies if the concentration of As is high enough.



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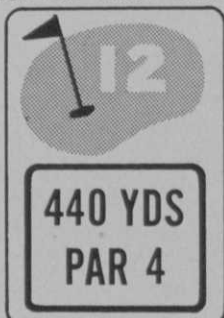
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