



This tractor outfit with scoop and loader is kept busy all through the season, and then some, at Medinah in the Chicago district. It handles material for road and trap maintenance, compost, and is a money—and time—saver on construction jobs.

it to be a law that to boil an egg for that length of time will make it hard.

How Greens-Lore Starts

All our knowledge of greenkeeping, and of the external world is of this sort, namely, *inductive*, for it is based upon experience. We assume that the laws of Nature will not change, and that things today will happen as they did yesterday if all conditions are the same.

For instance, over a period of time, a greenkeeper applies fertilizers to nine of his fairways, but not to the other nine, and uniformly gets better turf on the ones fertilized. He concludes that fertilizers are good and that he will get better turf on the other nine, if he uses fertilizer on them also. You will see that these conclusions have been reached by experience and observation.

Look Before Leaping

The great danger is that we are likely to observe a few facts and then "jump" to a conclusion. Our minds being untrained, we often cling to conclusions with great obstinacy and refuse to listen when anybody seeks to enlighten us. Hence we still find people carrying horse-chestnuts in their pockets to prevent rheumatism, wearing amber beads on their necks to ward off sore throat, believing confidently that a

"wet" moon means rain. Since all inductions are liable to imperfections, the scientific man submits them to tests before he accepts them as truths.

The scientific man, seeking an explanation of a phenomenon frequently recurring in Nature, constructs what is called an *hypothesis*, which is merely a guess at the truth. He assumes that the phenomenon is the result of certain conditions, and when these conditions exist this phenomenon will inevitably follow. Very often these guesses are wrong and more especially when it comes to greenkeeping.

Drs. Piper and Oakley's first hypothesis was quite far off: "That it was caused by a imysilam falling from the air." But on the other hand, the theory of gravitation was first an hypothesis or guess in Newton's mind.

Beware of Pet Ideas

One of the greenkeeper's worst enemies is prejudice, the cherished beliefs we pick up throughout life, based on hearsay or tradition. The average American boy grows with many beliefs firmly rooted in his mind. He is sure that the United States is the greatest country in the world. That its soldiers are the bravest, its trains the fastest, its boys the cleverest. Nobody could possibly beat his father, and his mother is