

**HUBBARD NURSERIES**  
**CREEPING BENT STOLONS**  
*Washington and Metropolitan Strains*  
 Pure, free of weeds, and of one season's growth  
**DR. AMOS F. HUBBARD, N. Kingsville, Ohio**

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**Drainage - Irrigation - Turf Development**

drains away from loam or clay the drainage is never complete for these soils after being watered retain some little moisture, but on very sandy soil you lose even that little amount of moisture.

The moral of this is to change that soil, either by fertilizer or top dressings of good loam. With regards to great cohesion, I am convinced that this is sometimes brought about by over rolling with a heavy roller in some shape or form, thus causing bad drainage, sourness and coldness.

I think that you will readily agree that the ideal soil for producing a suitable turf for golfing purposes the whole year through, having due regard to climatic conditions during the year, is a medium loam. For such a soil is fine grained in texture and has the power to lift water easily by capillary attraction during dry summers, at the same time is sufficiently open for air to enter freely and water to percolate during wet weather, and in such a soil you do not get the bad faults of clayey or sandy soil.

There are three things which are absolutely essential for the growth of good grass, 1st, humus; 2nd, warmth; 3rd, moisture. To sum up in a few simple words it means you must have nitrogen in your dressing which must change into nitrate before it is available for the roots of the grass plants.

Lastly, I'll conclude that these are my own simple convictions in regard to soils and foundations for a good course and greens.

### California Gossip

By ARTHUR LANGTON

Royal Palms Golf club has been bought by the county of Los Angeles. This course, which is located on the cliffs near San Pedro, Los Angeles Harbor, and the immediate surroundings will be turned into a public golf course, bathing beach, and recreation park.

Midwick Country Club in preparation for the 1932 Olympic Games which will be held in Los Angeles

has built a new polo field to accommodate the international competitors. This club also has built three new greens and three new fairways.

Old San Gabriel Country Club is in the process of completing seventeen modern greens. The work, which was started on May 30 under the supervision of William P. Bell, has been put through in record time.

Death Valley golf course, all grass, and located in the lowest and hottest point in the United States, is being made ready for the tourist season which starts in November. In spite of the heat and the arid environment, the surrounding mountains supply enough water to irrigate the course every day. The fairways are of Bermuda grass and the greens and tees are of Pacey rye. During the summer months the thermometer hovers around 130 degrees in the shade.

Flintridge Country club in Pasadena is about to construct a new number 4 hole on its championship course.

C. M. Cavanaugh, greenkeeper of the Los Angeles Country club recently has returned from the Hawaiian Islands where he made an extensive survey of turf production and maintenance conditions in that territory.

The Greenkeepers' Association of Southern California in conjunction with the Southern California Golf Association, is arranging for the construction of a greenkeepers' experimental station on the grounds of the Brentwood Golf club at Santa Monica. Under present plans, greenkeepers will take complete charge of the station and will attempt to solve some of the unique problems which vex them on the Pacific Coast.

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