What Cost Fairway Water System?

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$10,000 - $12,500 Covers cost of 18 hole Hose System if you have ample water supply with minimum residual pressure of 50 pounds at farthest outlet.

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$20,000 Gives you an 18 hole Fairway Hose System of permanent (75 to 100 years) construction. Add $8,000 to $12,500 for California Hoseless Fairway System.

$25,000 Covers cost of permanent 18 hole Hose System for Fairway, Tees and Greens. Add $8,000 to $12,500 for California Hoseless Fairway System.

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The above figures are of course merely estimates, and will vary with different courses. However, if you want fairway watering, you can have it. Write us for details.

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This comparatively new business of golf is going through an industry's usual experience in arriving at substantial buying standards.

There was the day when the biggest buyers bought mainly on first cost. The railroads bought carloads of shovels and track tools on price every year. The steel mills bought valves and belting yearly to the extent of a king's ransom, and entirely on price. Then, after a few manufacturers who were true to quality standards managed to get their products in on test, the railroads and steel mills found that quality at a higher first price was not only great absolute economy of buying but great economy of performance.

This golf business, now that it is on a billion dollar basis of investment, is learning the same old unchanging truth—quality is the only real bargain.

Consider carefully the buying lesson that big business has been taught by costly experimentation and you will resolve to make quality your own byword on mowers.

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_Makers of Roseman Hollow Roller Type Mowers for Fairway and Rough_

810 Church Street  
EVANSTON, ILLINOIS  or  11 W. 42nd Street  
NEW YORK, N.Y.
After First Cost There’s Maintenance Follow-THru

By PROF. L. S. DICKINSON

O

N MANY golf courses the fate of the fairways has been decided or will be decided at the next board meeting. The grass on the fairways under discussion is unquestionably thin and unhealthy. Few good “lies” are found, and many a “side kick” has lost yards of distance for the player.

Every club member who thinks about the fairways wants them improved. The low handicap members are bound they will be improved. The pressure of member’s opinion is so great that the fairways are up before the “Board.”

There are only sufficient funds left in this year’s budget to carry on routine work. In order to fertilize these fairways this fall (and all agree fall is a good season to fertilize fairways) a special appropriation will be required to purchase the fertilizer. After much discussion the “Board” decides to purchase fertilizer and use it on the fairways “that need it most.”

Spreading the Glad Tidings.

With the conditions as above noted well in mind let’s follow the project to the end and frankly discuss each step, except the decision as to what kind of fertilizer to purchase. Authorization has been given to purchase ten tons of fertilizer at $75.00 per ton, delivered at the club, a total expenditure of $750.00. The “Board” has adjourned and thinks no more of the project.

The greenkeeper sees ten tons of fertilizer coming to him all at once and it must be spread within a few days without additional laborers. “Ah,” he says, “here is where I get my fertilizer distributor,” and the request is placed with the green-chairman for a good distributor. The cost is $200.00 with all attachments for distributing large and small quantities over small and large areas. The “Board” is appealed to, with the argument that now you have bought the fertilizer you must provide for its distribution.

The “Board” is surprised. Its members had not thought about the cost of distribution. “Suppose the workmen would spread it as part of their regular work without additional cost,” says one member. To this statement the greenkeeper replies, “The cost is far from ended with the purchase of the fertilizer.”

The “Board” asks a few questions. Mr. Greenkeeper, why do you need the distributor? Answer: “Ten tons are too much to spread by hand. It takes an awful lot of work to handle ten tons from storage to truck, to field, to pail, to ground.”

The question then arises among the “Board,” is the greenkeeper personally scared of the labor involved, and will he transmit his fear and prejudices to the men? If so, the money cost of hand distribution will be greater than it should be.

The chairman of the green-committee
Even Distribution Important.

The answer comes back, “Uneven distribution will cause an uneven growth of the grass which in turn will make unequal lies for the ball.”

Mr. Greenkeeper, are your men so unskilled or so specialized that they can’t spread fertilizer?”

Answer: “I’ve only two men that can do it; the old timers.”

Other questions to be considered and evaluated before the distributor is purchased are as follows:

1. Will spreader be used annually, or every two or three years?
   A. Will fairways need fertilizer each year, and if so can the club afford to do it?

2. Is there storage room for the distributor and can it be properly taken care of?

3. How much actual labor time will the spreader save?

4. Will routine work be unknowingly speeded up by the efficient “gang” so that there will be little or no loss by the time the season actually closes?

5. Can a good spreader be rented for a reasonable price, say 12% of the initial cost?

6. If routine work can’t be speeded up, what shall be neglected? Neglect is an added cost.

Comparing Seed Prices.

A greenkeeper frequently has to choose between several competitors for his grass seed order. For example the following quotations are received: From A, 95-90 grade for $1.00 per pound; from B, 90-90 grade at 90c and from C, 80-80 at 80c. The guarantee in each case is unquestionable and the analysis shows very little difference in the weed contents of each sample. The first question to be answered is “are the values equal?”

The following formula will soon answer that question. Consider the highest grade seed price as fair. p = guaranteed purity of accepted value. g = guaranteed germination of accepted value. P = purity of comparing seed. G = germination of comparing seed. $ = price of accepted value.

\[
\text{Then } \frac{p \times g}{P \times G} = \text{relative value of comparing seed.}
\]
Substituting the above values the equation comparing A’s and B’s prices would read as follows: $90x90 \div 100 = X$.

Solving the equation the answer is 94.7. Therefore the actual cash value of B’s seed is greater than the price. By the same formula we find that the value of C’s seed is 74.6c per pound or less than the quoted price.

Obviously, one can only use this formula to compare prices of the same variety of seed. C’s bid is eliminated at once and the choice must now be made between A’s and B’s seed. The value of the seed is equal. On the basis of a 100 lb. order:

1. How much more of B’s seed must be purchased to obtain an equivalent amount of viable seed? That question can be answered by formula also. $pxg \div pxG = \text{ratio of amount of inferior seed required to equal a like amount of better seed.}$ Then $95x90 \div 90x90 = 1.05$.

1.05x100 lbs. = 105 lbs., the amount of B’s seed necessary to equal 100 lbs. of A’s seed. The balance sheet will read something like this:

| Cost A. | 100 lbs. @$1.00 = $100.00 |
| Cost B. | 105 lbs. @ .90 = 94.50 |

Balance in favor of B’s bid, $5.50 less express charges on 5 lbs.

Now is the time to consider who A and B are. We find A to be a local merchant and club member, and B a purchasing organization. Under such conditions would the $5.00 be really saved if the order was placed with B? Isn’t the friendship, accommodations and loyalty of A worth more than $5.00?

**Trapmania’s Cost.**

The fall fever for altering courses attacked a green-committee in the form of trapmania. The committee obtained a special budget for traps and built and paid for fourteen large traps. They did the job right by hiring extra men to do the work and thereby kept the course maintenance up to standard. The course was made sportier and more like a real course. And according to the self-satisfied committee the costs are all over.

The far-sighted greenkeeper, however, has to spoil the fun by asking for an annual budget increase of $150.00 to care for those traps. Because the greenkeeper has kept accurate costs of trap maintenance he is able to convince the Board that the budget addition is needed. If the increase is not granted, the standard of maintenance cannot be maintained.

Many greenkeepers are annually saddled with the problem of increased “fixed charges” such as the above mentioned traps. The club may expect annual increased efficiency in management to offset these charges to a limited amount but must be prepared to pay the balance.

**A Penalty of “Economy.”**

False economy is practiced at many clubs. For example, there is a piece of abominable rough that can’t be mowed frequently because the ground is too wet to operate a mower on. A request for $100.00 to drain the area has been made and has been turned down because the club couldn’t afford it and besides if the area was dry it would have to be mowed oftener.

To the greenkeeper’s knowledge the caddie hounds had retrieved over 150 balls from that particular piece of rough during the season. Each ball had at least 40c worth of play left in it. In balls alone the members (and visitors) were paying at least $40.00 annually (under good conditions there might have been 50 balls lost) plus the greenkeeper’s charges to keep the rough in bad condition. An expenditure of $100.00 will save $40.00 in cash, plus wrecked dispositions and scores. The cost of maintenance will not be increased as improved conditions will cut each mowing time in half. Personally, I don’t like to play certain courses because I lose a few balls in the rough. There are others also with a similar idea. Clean rough increases green-fees and cuts the cost of golf.

Unfortunately, the average player does not realize that an increase of $10.00 a year (for a time) in dues, will very likely pay him in some such forms as these.

1. Five good balls @ .60 $ .30
2. Ten side bets (over the average winnings for the past 3 years) @ .25 $ 2.50
3. Five more rounds because of clean rough @ 1.00 $ 5.00
4. The best score “I ever made” at owners stated valuation. 25.00
5. The satisfaction of showing the brother-in-law a good course $ 50.00

Total: $85.50

**Whose Fault Is Not Saving?**

There are many ways that money can be saved in the maintenance of any good
course, and who is at fault that it isn’t being saved? The greenkeeper? No. The greenkeepers through their associations are working hard to obtain all information possible whereby their course can be more efficiently maintained. Neither is it the green-chairman’s fault, though they could use their business ability more effectively (broadly) than they do.

For my answer I quote this startling bit of information from The Journal of the Board of Greenkeeping Research of the British Golf Unions, Vol. 1, No. 1: ……Greenkeeping has passed through a steady evolution but at the same time its complexity has increased. But the really important point to be brought out is—that this evolution, or sequence of changes, has been largely the results of trial and error, hit or miss. Perhaps only ten per cent of the ingenuity lavished upon golf course problems is fruitful, but with a little advice, based on scientific principles, there is no reason why this figure should not be raised to 75% or even more. Applied science, in general, may be said to increasing the ‘hits’ at the expense of the ‘misses.’”

No innovations should be undertaken at the expense of immediate or future maintenance, for more satisfaction and lowered scores can be obtained on a course that is constantly improving, without innovations, than on one with annual innovations and lowered maintenance standards.

Club Manager Marvels at Loeb’s Locker-Man Tale

THOMAS REAM, manager of Calumet C. C. (Chicago district), has thought long and seriously of the locker-room men he has encountered in his extensive and successful experience as a club manager and makes the same decision about Loeb’s locker-room man that the farm boy made when the kid saw his first kangaroo: “Hell, there ain’t no sich a animule.”

Doubting Thomas in a kindly vein of questioning comments on the Loeb article relative to Hillcrest locker-room operation in the following terms:

“Mr. Loeb says that the members are always in a hurry for service, always anxious to impress their guests with their own importance and the character of the club, and unfortunately, they take this service perfection as a matter of course. Does it sound logical that towels be kept in each member’s locker along with the soap and bath slippers? Why dictate to a member just how many towels he is to use. One day he might want one and the next day he is just as likely to ask for five. We have towels in the shower booths, paper slipper racks, soap and brush holders, sponge rubber mats, telephone, hand towels, bath stools, rubbing alcohol and talcum powder—all there at the disposal of any member who wishes to help himself whether sparingly or generously. Our attendants are nearby at their beck and call.

“Only one attendant to serve these 220 golfers, and he is obliged to open each locker and place therein bath towels, soap and slippers and all the things necessary to the comfort of each member after his game. He personally bundles up the soiled laundry; naturally, he is to label and count it, get clothes ready for the cleaners and clean shoes. Mr. Loeb also insists on each detail of the locker room being immaculate. With this department subject to such hard use and to guard against untidiness, it requires constant care. How, then, can one man be there, smiling and neat, to give “impressive” service, answer the telephone, counting up laundry bundles and cleaning shoes? It certainly doesn’t sound, reasonably, like good management to me. We have four attendants and sometimes it is all they can do to get away to eat a hurried meal, and our locker-room is kept in perfect order at all times and the members get A-1 service, but the valets have to be on their toes every minute to do it. We have about the same number of players.

“This locker-man has to eat his three meals a day, have a day off, shave and bathe and get into his uniform, so how is he to do all these things in the little time allotted to him without the aid of even one assistant throughout the week? On Saturday and Sunday each and every one is waiting to tee off, and they certainly wouldn’t call it good service if they were impatiently waiting for the locker-man to finish up with the member at the extreme end of the room. No, sir, Mr. Loeb, you’ll have to tell a better one than that; I am from Missouri.”

And so, Brother Loeb, Brother Ream puts the request for enlightenment. Is this man of yours the marvel of the age or is it on account of the climate that a California manager can get one man to do what it takes four to do in the turbulent area of the mid-west?
Measuring the Manager to Fit the Club Job

By HENRY R. DUTTON
Manager, Boston City Club
(Secretary, Club Managers' Association of America)

IN A RECENT issue of The Saturday Evening Post, David Lawrence comments upon the activities of men in big business and the inner workings of large industries. He says, in effect, that the operation of large co-operative organizations, or co-operatives, as he terms them, depends entirely for success on the selection of able management, that the directors of such enterprises realize this fact and are seeking to place the proper man at the head of such organizations and then giving them, through directorates, necessary assistance without embarrassing interference.

If there is any business which approximates as a parallel the co-operative idea, it certainly is that of the modern club. For here we have large groups of individuals banding themselves together with a common purpose in view, each virtually a stockholder and with the opportunities for service in the direction of the club's affairs, some time or another. Subject as they are to the penalties, financially and otherwise, which are the result of inefficient operation, they must of necessity be vitally interested in the successful operation of their club's business, and if they are to be governed and actuated by motives and judgments similar to that which would prevail in other organizations in which they are financially interested, they will see to it that proper management is secured for their club, to the end that its business be properly and satisfactorily conducted.

Sociability a Business

If we can once get club members to come to the realization that in spite of social aspects and the various other phases of club activities that makes them rather distinctive and different, that in a business sense they are business operations, and as such ought to be governed accordingly, then we have a proper foundation upon which to build, and the next step of course is in the selection of the proper type of executive for the administration of the club and its various departments.

Of course, many clubs suffer from the fact that although they have secured the services of capable managers, they refuse to permit these men to manage. There is injected into the club operation novel, yet unworkable ideas, and attempts to cater to whims and fancies of an impractical nature.

Under such circumstances where the capable executive is not permitted to administer the club's business as his training and experience has taught him to, the case is going to be pretty hopeless until the governing board changes its viewpoint. On the other hand, securing proper management and then giving to that management full support, constructive suggestions, and the benefit of common-sense advice, means the club will have a combination which will make it successful from every standpoint.

I have been asked to discuss the question of the proper selection of a manager, it being assumed, on the basis of experience of countless clubs each year, that proper and wise selection is not always made.

Measuring the Candidate

We have called this article "The Yardstick," and we use it in the sense that we may apply certain standards of measurement to the applicant for a position of country club management and obtain an accurate measure of the man and his fitness for the position.

The personnel departments within our large industrial plants and in various professions and commercial organizations have set a certain standard to prevent the placing of square pegs in round holes. It is just as essential that standards be established in the club industry so that misfits
Manager Bangs at the Oak Park C. C. is one of the wise ones who makes a well-equipped and well-run kitchen a cornerstone of club reputation.

may be eliminated and the industry itself show more successful clubs and fewer failures.

In the selection of a manager it must be borne in mind that club operation is a business embracing a great number of details, not merely details which the average executive must have at his finger-tips in regard to his particular line of endeavor. In the club business there are a multitude of subjects which the manager must know thoroughly, therefore it is essential that he be a man well grounded in the technical aspect of his business.

I merely recite a list of a few of the many phases which enter into club operation and I am sure it will give you a better understanding of the scope of the knowledge which must be in the possession of the applicant for a club manager's job.

Consider, therefore, that problems will arise in the course of the administration of the club's affairs which will have to do with accounting, architecture, banking, banquet service, knowledge of beverages, knowledge of purchasing and various ramifications, cooking and all its branches, dairy products, dietetics, electricity, engineering, knowledge of farm products, ideas concerning salvage of food and other materials, fire protection, thorough knowledge of foodstuffs, fuel economies, purchase and care of furniture and fixtures, garbage disposal, garage administration, management of help, duties of a host and the dispensing of hospitality. He must be a thoroughgoing housekeeper; he must understand hygiene, theories and practice of illumination, knowledge of insurance, possibly a knowledge of foreign languages, history, geography, laundry, purchase and care of linen, certain smattering of legal knowledge, marketing, mechanical devices, music, plumbing, publicity, refrigeration, general knowledge of hotel and club service and certain social qualifications, familiarity with communication system, telephone services, transportation, travel, vacuum cleaning, ventilation, extermination of vermin, and a multitude of other subjects that are encountered by the average club manager in the course of the routine operation.

It must be recognized that there are many angles to the profession, many subjects to be mastered, a vast fund of knowledge must be available for instant use as requirements demand.

An Exacting Patronage

This is an age when clubs rival hotels in the demands for service, comforts and modern conveniences, and also in the amount of financial investment. There has developed a serious need for a type of man who can successfully inject modern and efficient business administration into the operation of town and country clubs. The club manager goes a step further than his brother in the hotel profession because of the fact that instead of dealing with a clientele composed of a vast cross-section of the general public, his contacts are with
The men's grill at the Ozaukee C. C. (Milwaukee) was noisy. Conversations at the end of an 18-hole game were naturally rollicking in nature. All sorts of annoying and distracting echoes were caused by a vaulted construction of the roof. The result was a constant noise and din that drowned out ordinary conversation.

Ozaukee's board of directors solved this condition effectively and simply by installing on the ceiling flexible insulating material of the type made by the Flax-li-num Insulating Co., St. Paul. This insulation, left exposed, absorbed the noise and din which previously had been reflected in the form of echoes.

"Our men's grill is at last mentally comfortable and quiet," says A. H. Bentley, president of the club. "Reverberations have disappeared and conversations may be carried on without undue strain. Also, the appearance of the room has been improved."

Membership whose requirements are much more exacting and particular.

It is more essential that a club manager have the great number of details of the business at his command than the hotel manager because of the fact that in the majority of cases he is compelled to administer the departments himself directly without aid of experienced assistants, whereas the hotel can support a staff of trained executives to work with its manager.

The hiring of a manager usually comes within the province of a house committee, and because it is true that house committees are often chosen on the basis of social standing, or popularity, or their reputations as business men in the community without regard to their experience with the technical and administrative side of club work, it is obvious that their selection of a manager would not be based upon the fundamental principles most important to the club's benefit. They may mean well enough, and they may select a man who from appearance and from his sales talk and from references seems to them to be capable of filling the bill, but with a yardstick in their possession, it would be pretty difficult for them to go wrong. Therefore, what follows is an attempt to describe capabilities, personality, characteristics, appearance, and general knowledge, which are the units which will show the real measurements of a candidate who presents himself for the position of manager.

(To be continued.)
Mower Makers Are Behind Scenes Builders of Golf

As another golfing season in the northern and central states is vanishing into its twilight and the turf maintenance department can sit down for a few minutes' contemplation during the autumn rains it is not a bad idea to give some thought to the part the manufacturer plays in course maintenance.

There have been many reasons advanced for the tremendous growth of golf during the last decade, but one factor that undoubtedly has been prominent, has been scarcely mentioned in this connection. What golf scribe has sung the praises of the mower? And where would golf be if it were not for the mower? The entire foundation of present day golf rests on mowing equipment that constitutes the smallest major item of expense at the average golf club. An American industry that has an invested capital of more than $800,000,000 depends, in the last analysis, on its least expensive item for well-being and growth.

Day after day, and some nights, the mowers speed around the course and by their own excellence and reliability build up a maintenance standard that makes mower work more difficult and exacting. By their performance the leading makes of course mowers have developed a situation that makes angels weep. A mower gets no particular credit even for perfection. The mower gets a steady diet of work—the heaviest by far of anything around the golf club, not excepting the showers and the stoves in the clubhouse. It performs with starvation rations of maintenance money. Its performance is such that the greenkeeper can devote his time to the many problems of turf culture, landscaping and construction without having to worry about the continuous necessity of harvesting the excess crop of grass on fairways, greens and rough. In its modest way the mower undoubtedly has made the greatest contribution to scientific turf culture's advance by allowing the greenkeeper time to devote to this development.

Not Always Thus.

Ten to fifteen years ago the greenkeeper considered himself fortunate if he was able to get a fairly good growth of grass and keep it cut. He spent no inconsiderable part of his time as a mechanic. The automotive era was completing its conquest and the golf field became an attractive pasture for inventors and manufacturers. In 1916 there were 742 golf clubs in the United States so it will be promptly appreciated that the mower inventor did not have a tremendous market then to reward his endeavors. Nevertheless, the mower men were busy eliminating the

This is the first triple mower that Worthington sold; the forerunner of a new day in big volume grass cutting.