Fleming Irrigation takes the confusion out of golf course irrigation. Starting from your course, they plan and design the system to fit your exact needs.

With their knowledge of sods, turfs and grasses, as well as irrigation, Fleming keeps the green in your greens and fairways.

You are assured of a fail-safe installation from the beginning because Fleming has the experience that comes only from installing systems on a variety of courses.

Doesn't it make good sense to have an irrigation specialist and water engineer plan, design and install your irrigation system?

Take time out to talk to Fleming . . .

### Weight It Out

This is a table published by the Wisconsin Golf Course Superintendents Association in its newsletter which every superintendent should keep within easy reach. Any man who says “Who Needs it?”—that he has all this stuff committed to memory—has got to be kidding.

#### VOLUME

<table>
<thead>
<tr>
<th>Unit</th>
<th>Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 liter</td>
<td>1.056 qts.</td>
</tr>
<tr>
<td>1 gallon</td>
<td>281 cu. in. or .1337 cu. ft.</td>
</tr>
<tr>
<td>1 gallon weighs 8.33 pounds</td>
<td></td>
</tr>
<tr>
<td>1 million gallons = 3.0689 Acre feet</td>
<td></td>
</tr>
<tr>
<td>1 cu. ft. = 1728 cu. in. or 7.48 gal.</td>
<td></td>
</tr>
<tr>
<td>1 cu. ft. weighs 62.4 pounds</td>
<td></td>
</tr>
<tr>
<td>1 g.p.m. = .00223 cu. ft./sec. or 1440 gal./day</td>
<td></td>
</tr>
<tr>
<td>1 m.g.d. = 1.547 cu. ft./sec. or 695 gal./min.</td>
<td></td>
</tr>
<tr>
<td>1 cu. ft./sec. = 7.48 gal./min. or 448.8 g.p.m. or 646,272 g.p.d. or .992 Acre inch/hr.</td>
<td></td>
</tr>
<tr>
<td>1 acre inch/day requires 18.7 g.p.m. cont. flow</td>
<td></td>
</tr>
<tr>
<td>1 cu. ft. = 1,728 cu. in.</td>
<td></td>
</tr>
<tr>
<td>1 cu. yd. = 27 cu. ft.</td>
<td></td>
</tr>
<tr>
<td>1 Acre ft. = 1,613 cu. yds.</td>
<td></td>
</tr>
<tr>
<td>1 sq. ft. = 9 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>1 Acre = 4,840 sq. yds.</td>
<td></td>
</tr>
<tr>
<td>1 g.p.m. = 43,560 sq. ft.</td>
<td></td>
</tr>
<tr>
<td>1 pt. = 16 oz.</td>
<td></td>
</tr>
<tr>
<td>1 qt. = 32 oz.</td>
<td></td>
</tr>
<tr>
<td>1 gal. = 128 oz.</td>
<td></td>
</tr>
<tr>
<td>1 oz./1,000 = 2.72 pts./Acre</td>
<td></td>
</tr>
<tr>
<td>1 gal./1,000 sq. ft. = 43.6 gal./Acre</td>
<td></td>
</tr>
</tbody>
</table>

#### AREA:

- Circumference of a circle $C = d \times 3.1416$
- Dia. of a circle $D = c \times .3183$
- Area of a circle $A = d^2 \times .7854$ or $A = r^2 \times 3.1416$
- Area of a rectangle $= \text{length} \times \text{width}$

continued on page 84
NEW FORE-PAR FLAG CAN BE CHANGED IN 5 SECONDS!
Looks Better, Lasts Longer

1. Remove nut and old flag.
2. Slip on new flag, replace nut.

THE SECRET?
A “built-in” tubular swivel, permanently constructed in each flag instead of grommets. Aluminum collar supplied by us easily converts ANY flagpole for this new “QUICK CHANGE” flag.

FORE-PAR’S new, smoothly rotating Flag makes all others obsolete. Usual FORE-PAR high quality 2-ply nylon with double row of LOCK stitches, reinforced corners and . . . PERSONALIZED with your Club Emblem at No Extra Cost.

FORE-PAR MANUFACTURING CO.
Foremost in Golf Course Equipment
P.O. Box 126, Laguna Beach, Calif. 92652
Area Code 714 494-5282
Write for brochure and supplier’s name
Pat & Reg. Applied for

Weight it Out

continued from page 82

A = L x W
Area of Triangle  A = Base x ½ Perpendicular height
Area of Parallelogram
A = Base x Height
Volume of tanks  V = d² x L
Vol. of cylinder in gals.
V = d² x L x .0034
1 mile = 1,760 yds.
1 mile = 5,280 ft.
1 rod = 16½ ft.
1 Acre = 43,560 sq. ft.
1 sq ft. = 144 sq. in.
WEIGHT:
1 pound = 453.6 grams
1 long ton = 2240 pounds
1 oz./1,000 sq. ft. = 2.72 pounds/Acre
1 pound/1,000 sq ft. = 43.6 pounds/Acre
100 pounds/Acre = 2.3 pounds/1,000 sq. ft.
TEMPERATURE:
Cent. Temperature 5/9(F-32)
Fahrenheit Temp. 9/5(C+32)
FERTILIZERS:
Ammonium nitrate, am.
monium sulphate, potas-
sium chloride, sodium ni-
trate.
435#/A or 10#/1,000
110#/A or 2½#/1,000
Ground limestone, ground
dolomitic limestone or po-
tassium sulphate.
870#/A or 20#/1,000
280#/A or 6½#/1,000
Ammonium phosphate, mixed fertilizers (10-10-
10), etc.
300#/A or 7#/1,000
50#/A or 18 oz./1,000
11#/A or 5 oz./1,000
Urea.
44#/A or 1#/1,000
Activated sewage sludge
or ureaform.
(50#/A or 15#/1,000
150#/A or 3½#/1,000
Hydrated lime
1,100#/A or 25#/1,000
220#/A or 5#/1,000