

WARREN'S A-20 BLUEGRASS —
For Tees & Collars, Takes Short Mowing

WARREN'S A-34 BLUEGRASS
For Shaded Areas

MERION BLUEGRASS AND BULEGRASS BLENDS
CREEPING BENT SOD AND STOLONS
WASHINGTON — TORONTO — COHANSEY

WARREN'S TURF NURSERY

8400 West 111th Street Phone (312) 448-7200
PALOS PARK, ILLINOIS

CLEARY PRODUCTS FOR BETTER TURF

- PMAS** — Crabgrass and Turf Disease Control
- CADDY** — Economical and Effective — Liquid Cadmium Fungicide
- SPOTRETE** — 75% Thiuram Fungicide
- "THIMER"** — A broad-spectrum wettable powder fungicide and crabgrass killer containing phenyl mercury and thiram.
- "METHAR"** — Disodium Methyl Arsonate (DSMA) in wettable powder (highest concentrations) and liquids.
- "SUPER METHAR"** — The new "AMA" liquid crabgrass killer.

CLEARYS MCPP

For selective control of Chickweeds, Knotweeds, Clover, Dandelion, or Plantain in Bentgrass Greens and Fairways as well as Bluegrass, Fescues, and their mixture.

"ALL WET"

Added to Water Obtains Quicker and Deeper Penetration
Retains Moisture, Prevents Dew

W. A. CLEARY CORPORATION
NEW BRUNSWICK, N. J.

TORONTO



C-15

BENT

SOD & STOLONS

"PURE TO STRAIN"

GROWN ON STERILIZED SOIL TO INSURE FREEDOM FROM POA ANNUA AND OTHER FOREIGN GRASSES.

PENNCROSS BENT SOD



H & E Sod Nursery, Inc.
4301 W. Flossmoor Rd.
Tinley Park, Illinois
312 798-2210

FLOODED AREAS

Many golf courses have had flooded areas from the heavy rains we have experienced this year and plans are now in process to provide drainage systems for some of those flooded areas, but before an adequate system of drainage can be designed the amount of water to be removed plus the removal time in hours must be determined.

The following formula for arriving at the amount of water to be removed may be used in the Chicago area.

$$Q = \frac{A \cdot I \cdot R}{T + t} \times 450$$

in which Q equals the runoff in gallons per minute.

A equals the area in acres which is being drained.

I equals the impervious factor or runoff which is 0.30%.

R equals the rainfall in inches per hour.

T equals the duration of the rainfall in hours.

t equals the time in hours for removal of the storm water.

EXAMPLE

Assume we had 100 acres of land to drain on which one-inch of rain had fallen in one hour's time and which we decided to remove in a period of six hours the above formula may be used as follows:

(Q) Gallons per minute =

$$\frac{(A) 100 \times (I) 0.30 \times (R) 1}{(T) 1 + (t) 6} \times 450$$

$$= 1936 \text{ gallons per minute.}$$

C. E. (Scotty) Stewart

There ain't nothin' purtier
than a lawn mowed with a

**TORO
MOWER!**



GEORGE A. DAVIS, INC.

5440 Northwest Highway — Chicago 30, Ill.