soil, deep placement will make them immediately available to the new plant to enhance root and top growth. It is extremely important, however, that the fertilizer be mixed into the backfill and not placed in direct contact with the roots. A slow release fertilizer is not desirable for mixing with the backfill. Slow release fertilizers supply only small amounts of nutrients at any one time, so the possibility of root damage is minimized and a longer term response is obtained.

Of the nutrients in a complete fertilizer, nitrogen gives the most pronounced effect. Phosphate and potassium, on the other hand, generally produce little visible growth response unless soil levels are extremely low. Since certain soils may be deficient in these tow nutrients, and since phosphorus is essential for root growth, it is usually beneficial to use a complete fertilizer (N,P,K).

The recommended rates of fertilization are four pounds actual nitrogen (N) per 1,000 square feet per year. When needed, 3.6 pounds of phosphate (P205) per 1,000 square feet and six pounds of potassium (K90) per 1,000 square feet should be applied every two to four years. These quantities of fertilizer cannot be applied to the turf under trees. It must be applied to a non-turf area or placed in holes drilled in the soil around the tree. The recommended rate for turf is 1 lb. N/1,000 ft2 at one time and any rate greater than two pounds of nitrogen per 1,000 ft2 in one application will result in injury to the turf.

Products that combine fertilizers and herbicides ("week and feed") should not be used on or around trees and shrubs. Such products will injure or kill trees in the same way that they kill weeds.

NEW DROUGHT FOLDER AVAILABLE

The Dial-U Insect and Plant Information Service has written a follow-up folder to last year's "Drought and the Urban Landscape". The new publication is called "Restoring the Urban Landscape: Methods for Recovering from Hot, Dry Weather". It deals with lawn repairs, tree and shrub care, and offers gardening tips for coping with dry conditions. It also alerts to insect and disease problems expected this year.

Order your copy of "Restoring the Urban Landscape" by contacting your local County Extension Office. Ask for AG-FO-3727.

FILL IN EXTENSION SERVICE AGENT

Phil Allen has been hired as turf extension assistant for the state of Minnesota from now through September 30,

CUSHMAN 1989 SPECIAL!!! 22-hp for \$4,850.00

MODEL 531 RUNABOUT

SEAT: Two-passenger, vinyl-clad seat with backrest and hip restraints/hand holds STEERING: Wheel-type SUSPENSION: Front: Leading-link type supported by 2 tension springs; front shock absorbers Rear: Two multiple leaf-type springs and shock absorbers TIRES: Front: 18-8.00 x 6, 4-ply turf rib Rear: 18-9.50 x 8, 6-ply turf softrac **PERFORMANCE:**

Payload: 1500 lbs. (681 kg) Speed (Maximum): 18 mph (29 km/h) POWER:

Engine: 22-hp

Bill Nikovics

Clutch: 6 1/2" (165 mm) commercial Transmission: H-shift pattern; 3 speeds forward and 1 reverse; synchromesh in second and high Differential: Worm-gear with 10.25:1 axle ratio Governor: Mechanical overspeed



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1989. This position fills the vacancy for Turf Extension while Don Taylor is on sabbatical leave.

JOB OPENING

He can be reached at: Phil Allen, Turf Extension Assistant 434 Alderman Hall University of Minnesota St. Paul, MN 55108 Phone: 624-1706

MISSING TABLE

Here is the table that was left out of the article titled "High pH Soils are Detrimental to Daffodils" last month.

Table 1. Guidelines to lower pH with elemental sulfur¹ Initial pH Pounds of Elemental Sulfur Required per 100 sq. ft. to reach pH 6.5 Sandy Soils **Clay Soils** 7.0 0.5 - 1.0 1.0 - 2.07.5 1.0 - 2.0 2.0 - 3.08.0 2.0 - 3.0 3.0 - 4.0 8.5 3.0 - 4.0

'Adapted from the 'Fertilizer Handbook', Natural Plant Food Institute, Washington, D.C.

TITLE OF POSITION: Golf Course Mechanic

COMPANY NAME: Owatonna Country Club Owatonna, MN 55060

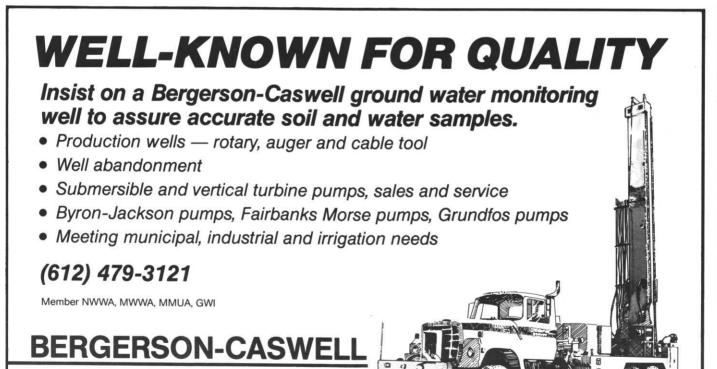
DUTIES: Perform all repair and maintenance of golf course equipment and golf car fleet. Prepare yearly budgets for equipment repair. Keep accurate written records pertaining to parts inventory, equipment repairs, and preventative maintenance schedules.

ANNUAL BASIC SALARY: Negotiable with experience, some benefits included.

REQUIREMENTS: Knowledge of small engine operation and repair, some diesel experience, knowledge of electrical systems. Oxyacetylene and arc welding experience. reel mower and rotary mower setup helpful

RESPONSIBLE TO: Randall Nelson, CGCS, Golf Course Superintendent

SEND RESUME OR INQUIRE TO: Randall Nelson **Owatonna Country Club** PO Box 446 Owatonna, MN 55060 507/451-4144



4.0 - 5.0

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