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Wherever you use it, Roundup<sup>\*</sup> herbicide helps make weed control around your customers' homes fast, easy and effective. Just one application of Roundup controls tough labeled weeds right down to the roots, so they won't grow back. That means less need for timeconsuming repeat treatments.

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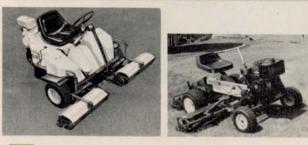
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Monsanto

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oday, when purchase price, fuel economy and longevity are most important, count on a National to do more work than competitive machines, and do it with easier, faster and less maintenance, over a longer period.

National's initial cost is less than that of mowers sold to do the same job.

Less down time. Standard off-the-shelf items like belts and bearings which are available from any local industrial supplier.

 Greater fuel economy. 44% to 62% less fuel consumption than power robbing, hydrostatic type rotary mowers.

One-third to one-half the cost of maintaining a National versus competitive models because of its easy accessibility.

Model 84 gets the job done faster by cutting a swath a foot wider than a rotary.

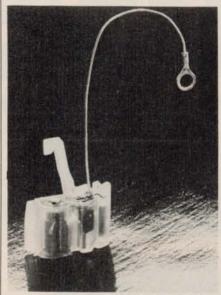
Quality construction. More years of service. For example, we still cut our own gears out of solid, quality steel blanks.

Write for the name of your nearest dealer—then call for a demonstration.



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#### **PRODUCTS** from page 66



system appears now on the I/C (industrial/commercial) engines 3, 5, 8, 9, 10 and 16 hp single cylinder and 16 and 1-8 hp twin cylinder cast iron bore engines.

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**Hinde Engineering** now offers the Air-Aqua Root Irrigation system which can save over half the water and fertilizer conventionally needed. This tubing can be placed in close contact with the plant roots without fear of it clogging or deteriorating and emits water equally along its length. When the pressure is turned off, the valves automatically close to block out dirt, roots and insects. The chemically inert polyethylene tubing is unaffected by salts, soil, and environmental factors.

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Hahn's precision oscillating action spreader unit mounts directly to the frame of the Hahn Spray-Pro and is powered by its engine. The swath is



adjustible from 12 to 45 feet and the micrometer type setting provides a uniform rate of flow. The unit spreads 3000 sq. ft. in 2 minutes and is suitable for seed lime, or fertilizer. Circle No. 163 on Reader Inquiry Card

"That's a polite term for letting the capital plan go to hell." There is no one at Rec-Park to manage Candlestick the way Ray Ward operates the Oakland Coliseum. George Kerwin supervises maintenance but has no voice in policy-making. "We need a guy to stay on top of things and make sure they get done," a Giants' official said.

The Candlestick leases specify that maintenance of the playing field is the Giants' responsibility during the baseball season but the City's during the football season. This clumsy system has not worked.

Back in 1979 after the Giants had lost the fight to return to astroturf. the Giants suggested that an outside consultant be brought in to help direct the turf maintenance. Coincidentally, it took a play-off bound team (49ers) and the NFL to put the advice to work almost three years later. For the play-off games, the center of the field was stripped of all Kentucky bluegrass turf and replaced with clay grown sod containing Kikuyugrass obtained from a city park. With George Toma from Kansas City supervising the operation, the field was in acceptable condition for the games. But the main problem is still evident-continuality of field maintenance and one overall knowledgeable supervisor.

#### **Analyses and Solutions**

Before one can offer solutions to the Candlestick Park situation, perhaps the following questions should be addressed:

- 1 Who or why didn't someone within the City of San Francisco attempt to find out what was going on and make some overt attempt to resolve it?
- 2 If the field failed to function as designed. originally why wasn't someone in the city asking questions or seeking help?
- 3 Why weren't the field maintenance problems recognized before they developed or certainly before they got out of hand where they could not be resolved by local officials?
- 4 Why wasn't the firm who designed and constructed the Sportsturf TD Field, who had offered technical and agro-

nomic assistance repeatedly, been contacted or approached for solutions?

There is nothing wrong with the design or the construction of the turfgrass field in Candlestick Park. The problem stems from the lack of employing the "sophisticated turf manager" alluded to earlier in this article. Someone needs to oversee and manage the field on a yeararound basis and must employ the current knowledge and cultural

practices available to him. The San Francisco Giants and 49ers must initiate a cooperative effort to communicate about what the other is doing and then combine this information into a yearly maintenance program and schedule. Such a solution will work as evidenced by the cooperation, hard work and dedication the City of San Francisco and their personnel gave to George Toma during the NFL play-off games.



1. Quick brownout. Kills entire 3. Up to 98% control of rhizome plant - roots and all - ends regrowth problems.

2. Economical, easy to use. Freeflowing. Completely water soluble, forms a true solution.





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johnsongrass into the next season-even where foliar materials alone fail to give good control.

**REVENGE** is a highly effective. low-cost herbicide for control of established annual and perennial grasses. It combines contact action with systemic action that moves chemicals through foliage and roots. Short soil residual permits replanting within a few months.

**REVENGE** used at 15 pounds per 100 gallons of water, along with 2 quarts of Hopkins' Neptune® or Agicide<sup>®</sup> Activator, gives fast, effective control of troublesome perennial grasses such as quackgrass, bermudagrass, johnsongrass and cattails. Don't just get mad at grass problems - get REVENGE.

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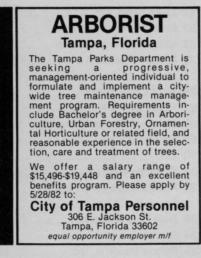
Asplundh and Hi-Ranger forestry bucket trucks, Asplundh wood chippers, Vermeer stump grinder 2460A. Excellent Condition! Log splitters. Mirk, Incorporated, (216) 669-3567. Residence, (216) 669-3562. 7629 Chippewa Road, Orrville, OH 44667. 5/82

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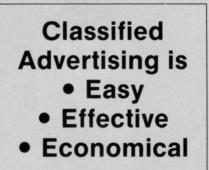
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