Example 2
Assume: sprayer applies 200 liters (l) of water/ha
Total plot area: 2m x 5m = 30m²
Solution: use proportions

\[
\frac{\text{liters/ha}}{\text{m}^2/\text{ha}} \times \frac{\text{X liters}}{\frac{200}{\text{liters}}/\text{m}^2} \times \frac{\text{X liters}}{\frac{10,000}{\text{m}^3}/\text{m}^2} = \frac{0.6 \text{ liters for 3 plots}}{0.10,000}
\]

Since 0.6 l is the exact amount of water needed to spray 30 m², the researcher might decide to use one liter as the total volume for each three plot series. The remaining 0.4 l is used to check the nozzles and allow for error. The amount of herbicide can then be calculated for one liter.

Example 3
Compound: atrazine
Desired Rate: 2 kg ai/ha
Total plot area: 3 plots, 2m x 5m each = 30m²
Assume: sprayer applies 200 l of water/ha
grams/ha \(\times\) grams of commercial product
\[
\frac{\text{liters/ha}}{\text{m}^2/\text{ha}} \times \frac{\text{X liters}}{\frac{2000}{\text{grams}}/\text{m}^3} \times \frac{\text{X liters}}{\frac{200}{\text{liters}}/\text{m}^3} \times \frac{1}{\text{liters}} = \frac{10 \text{ grams active ingredient}}{0.2000}
\]

The commercial product (c.p.) required if the formulation is an 80 percent active wettable powder can be calculated as follows assuming 100 g of c.p.: 100 g c.p. = 80 g ai
Grams of commercial product

\[
\frac{\text{grams of active ingredient}}{\text{grams commercial product}} \times \frac{\text{X grams}}{\frac{2000}{\text{grams}}/\text{m}^3} \times \frac{\text{X grams}}{\frac{200}{\text{liters}}/\text{m}^3} \times \frac{1}{\text{liters}} = \frac{10 \text{ grams active ingredient}}{0.2000}
\]

The amount collected for each area is 80 grams commercial product. The amounts collected for each area is equal to the total discharge.

Example 5
Plots (replications) to be sprayed: 3
Plot size: .25 ha
Area = \(3 \times 0.25 = 0.75 \text{ ha}\)

\[
\text{liters per ha} = \frac{8 \times 10,000}{6 \times 30} = 133.3
\]

The above article was excerpted from the Field Manual for Weed Control Research, published by the International Plant Protection Center, Oregon State University, Corvallis, Oregon.
The Keystone of Immaculate Turf
Immaculate weed-free turf not only looks better, it also costs less.

Read how Trimec® Turf Herbicide can save you time and money, and make your work more fun.

It costs less to go first class. How many times have you heard that old truism? You know it's a fundamental fact of everything in life, but in no other phase of today's economy is it more graphically demonstrated than in the world of weed control in professional turf management.

When a turfman tries to skimp along with a narrow-spectrum herbicide on the theory that it will control the major eyesores like dandelions and chickweed, and will cost less per gallon than Trimec — he opens the door to an endless chain of problems and expenses.

Perhaps the worst consequence is the emergence of some ugly weeds of the hard-to-kill variety that he once considered to be so rare that he didn't even think of them as a problem in his area. And, when these weeds come, they come as a crowd...out of nowhere.

Of course, you know where they came from and why they came. They're the natural consequence of using a narrow-spectrum herbicide in an area that is fertilized and watered.

The hardy weeds (which were not controlled by the narrow-spectrum herbicide) are nourished by the fertilizer and water, and fight with the grass to fill the vacancy left by the demise of the sensitive weeds. Some of them win, and weeds that were once obscure become prominent.

There's really only one efficient way to cope with the problem, and that is the Trimec way.

Trimec is the one turf herbicide with a broad enough spectrum to get those hard-to-kill weeds right along with the common, sensitive ones. How many species of broadleaf weeds will Trimec control? We are still looking for the economic broadleaf weed that Trimec will not control when applied at the right times and rate. If we ever do find such a weed, we will be very surprised. No other selective herbicide can match the broad spectrum of Trimec.

Yet, with all this power, Trimec is friendly to the environment in terms of safety to grasses, because no ingredient in Trimec is at a phytotoxic level.

And when you get to the bottom line, Trimec is less expensive than its less-effective contemporaries because it requires less chemical per acre for maximum weed control, and it saves labor costs because it does it right the first time so you don't have to do it over. Thus, when you use Trimec, you not only look good to the greens committee...you also look good to the finance committee.

Only Trimec gives you all of these benefits

- Controls the widest range of broadleaf weeds
- Gets hard-to-kill species with one treatment
- Wide safety margin for lawn grasses
- Minimum hazard from root absorption
- No vapor action after application
- Effective weed control in wide temperature range
- Unique formula overcomes water hardness problems
- Treated areas may be seeded within two weeks
- Non-flammable and non-corrosive in use
- Product stable several years above 32° F.
- Biodegradeable; friendly to the environment
- Bentgrass formula also is available.

In summary

The Trimec record speaks for itself. No other turf herbicide available today is the equal of Trimec, not only in providing superior broadleaf weed control, but also in terms of safety to grasses — and in total cost. No wonder an overwhelming majority of golf course superintendents agree: Dollar for dollar and acre for acre of immaculate, weed-free turf, Trimec is the most efficient broadleaf herbicide on the market... period.

See your authorized Gordon distributor, today.

Trimec® is a registered trademark of PBI/GORDON Corporation, U.S. Patent No. 3,284,186.
Guy wire

Straight Tie supports young trees

Straight Tie guy wires are simple, neat and easy to install, saving both time and material. Made from 9-gauge galvanized wire, they have a 360-degree loop at one end and are covered with a weather resistant sleeve to protect the tree from damage along with special self-locking fasteners. Straight Tie allows newly planted trees, up to 1-1/2 caliper to be supported with just one stake. Straight Tie allows the tree to move naturally so it develops properly.

Write 205 on Reader Service Card

Adjustable width spreader

Vicon units are multipurpose

Vicon has developed the first adjustable width seeder-spreader with a futuristic design that eliminates "dead corners," according to Dennis Schwitters, President. The hoppers are shaped like a television tube with rounded corners. The multipurpose machines can be used for any type job a superintendent has in mind—fertilizing, seeding, applying herbicides, insecticides—with accuracy. Schwitters says coverage is thorough, continuous and accurately metered from start to finish, even on hilly fairways.

A special key lets the driver adjust the spreading width from 20 to 45 feet with just a twist of the wrist. Vicon's seeder-spreaders are available in seven models ranging from a hopper load of 400 to 2400 pounds.

Write 206 on Reader Service Card

DieSEL mowEr

Howard Price has 27-hp, 72" unit

The Turf Blazer 727 with its 27-hp Yammar liquid cooled diesel engine and 72-inch cutting head combines diesel lugging power, durability and fuel efficiency with the trimming capabilities of an out-front offset deck. A foot-pedal controlled hydrostatic transmission provides speed variation from 0-10 mph forward and 0-5 mph in reverse—a mowing capacity up to 3.7 acres per hour, depending on conditions. Optional attachments include a 52-inch, two-stage snow blower, rotary broom, roll-over protection and cab.

Write 207 on Reader Service Card

Controller pedestal

Weather-matic's features dual posts

Weather-matic's new dual-post pedestal now has two separate, roomy channels for the 24V and 115V wiring. This new model SSRP pedestal is used with Weather-matic controller models SSR, CC-10, and SC-10 to wire the automatic controller and valves of the underground irrigation system. The new model SSRP pedestal posts are of heavy guage, welded steel and finished with corrosion resistant, blue enamel over primer coat.

Write 208 on Reader Service Card

10-page brochure contains details

A new 10-page brochure contains detailed descriptions and specifications of A E F Aluminum Bridging Systems, Walkways and Towers. They are designed and built to support personnel, pipes, conveyors, cable-trays, ducts and other utilities.

Standard models spanning over 100 ft. are pre-engineered and of modular construction for maximum economy and ease of assembly (no field welding. Made of high strength, light weight, corrosion-resistant aluminum alloys, they require no painting and are virtually maintenance free.

Write 209 on Reader Service Card

Aluminum bridges

10-page brochure contains details

A new 10-page brochure contains detailed descriptions and specifications of A E F Aluminum Bridging Systems, Walkways and Towers. They are designed and built to support personnel, pipes, conveyors, cable-trays, ducts and other utilities.

Standard models spanning over 100 ft. are pre-engineered and of modular construction for maximum economy and ease of assembly (no field welding. Made of high strength, light weight, corrosion-resistant aluminum alloys, they require no painting and are virtually maintenance free.

Write 209 on Reader Service Card
We put a lot into our Turf-Truckster.

One of the most dependable vehicles for moving your crew around is the 3- or 4-wheel Cushman® Turf-Truckster®. But it was also designed for more than just transportation.

Equipped with an optional PTO and hydraulic system, both models accept a wide range of special, add-on turf maintenance equipment. So with just one Turf-Truckster you can haul, dump, grade, seed, spray, spread, top dress, and aerate. Plus, we've increased the payload capacity of the Turf-Truckster to 1,500 pounds*. So you can carry more than ever before.

But there's more to a Turf-Truckster than versatility. There's a rugged 18-hp engine that's built to take on your turf. It comes with a standard 2 to 1 auxiliary transmission. A transmission built to allow a gear driven PTO to be attached directly to it. And common sense engineering makes the Turf-Truckster steer clear of the repair shop, too.

The 3-wheel model gives you the maneuverability of a tight 17' turning circle, while the 4-wheeler has seating room for two. And it just takes minutes to add any of the Turf-Truckster's accessory pieces, thanks to Cushman's pin-disconnect system. No bolting, no hitching. Just snap two or three pull pins in place and you're ready to hit the turf.

If a good transportation/hauling vehicle is all you need, though, look at the Cushman Runabouts. There's an 18-hp two-seater, and a fuel-stingy 12-hp one-seater model. Both Runabouts are economical to own. And like any Cushman vehicle, they're built tough.

There's nothing like a Turf-Truckster or Runabout to get more work done, in less time and with less manpower. For a closer look at what goes into, or behind, a Cushman vehicle, return this coupon today.

*Rating for vehicle equipped with 9.50-8 rear tires.

Show me what you put into a vehicle, Cushman.
☐ I'd like a demonstration of the Turf-Truckster (3-wheel or 4-wheel). (Circle One)
☐ I'd like a demonstration of the Runabout (12-hp or 18-hp). (Circle One)
I'm interested in seeing these Turf-Truckster attachments: □ Aerator; □ Sprayer; □ Top Dresser; □ Grader/Scarifier; □ Flatbed/Dump Box; □ Cyclone Seeder/Spreader.
☐ Send me your new 1981 catalog.

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April issue closes March 9
May issue closes April 8
June issue closes May 8
July issue closes June 9
August issue closes July 10

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Mail ad copy to Dorothy Lowe, Golf Business, 7500 Old Oak Blvd., Middleburg Heights, Ohio 44130.

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