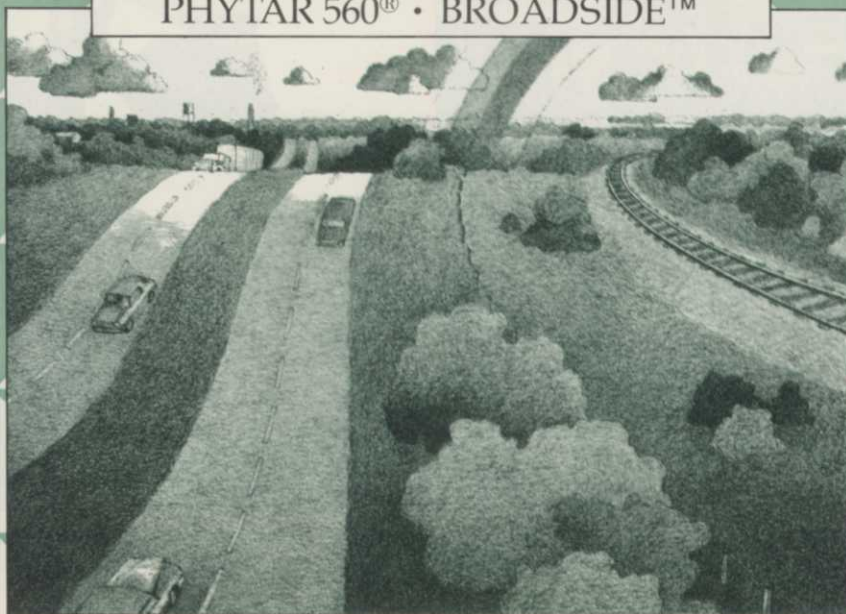


CRYSTAL

PHYTAR 560® • BROADSIDE™



GENERAL NON-SELECTIVE HERBICIDES

For general post-emergent weed control in non-crop areas Crystal Chemical Company makes Phytar 560 and Broadside. Both are Cacodylic Acid type herbicides, and Broadside also contains MSMA. Both products can be used for fast knockdown of weeds along highways, rights-of-way, around buildings, fence rows, playgrounds, drainage ditches, golf courses, and railways. Phytar 560 is safe for use around ornamentals and non-bearing citrus orchards, while Broadside's effective root-kill is ideal for controlling tough perennials. Both provide complete weed control without soil sterility. So don't let unsightly and hazardous weeds control you. Control them with Phytar 560 or Broadside.



Crystal Chemical Company
1525 North Post Oak Road
Houston, Texas 77055
(713) 682-1221



JOB MATCHED POWER



Ford rear blades for grading, leveling, ditching, back-filling, snow clearing, other jobs. Eleven models, 6 to 10-foot widths. Swing offset feature, standard on selected models, lets operator offset the blade right or left quickly and easily.



Tough Ford backhoes provide all the power you need for craning and digging. Sizes include 12-foot, 14-foot, 15-foot, 17-foot, and 15-foot with 4-foot hydraulic extendible dipperstick. Factory-installed 2-lever or 4-lever controls available on all but the 17-foot backhoe (4-lever only).



Ford 3-point hitch and hydraulics with twin lever controls. It's the Ford design for fast, precise landscaping. Response is smooth and accurate with fine increments of adjustment. Permits three types of response: 1) Blend of draft and position control. 2) Draft control. 3) Position control. Available on selected models.



Ford LCG (low center-of-gravity) tractors. Ideal mowing and towing power. LCG design hugs the slopes, while optional dual rear or low-pressure, wide-base tires pamper turf. Shown with Ford flail mower. (Photographed at Pebble Beach, CA.)

Ford tractors and equipment are available in a wide variety of combinations to match your job needs. Ford tractor power includes Ford industrial tractors, Ford all-purpose tractors, Ford LCG (low center-of-gravity) tractors. Most are available with options to match your special requirements. Here are a few of the many landscaping and grounds maintenance jobs that Ford tractors and equipment can do for you.

See your Ford tractor dealer today. He's listed in the Yellow Pages under "Contractors' Equipment & Supplies" and/or "Tractor Dealers".

FORD TRACTORS



Ford rotary cutters. Level medium to coarse growths in a fast, once-over operation. 60-inch, 72-inch, 84-inch, 100-inch and new 120-inch and 144-inch Ford rotary cutters. Gauge wheels standard. Options include straight, suction or hook blades, skid shoes, chain guards, etc.



Ford industrial tractor loaders. Backfill, load, lift, carry, spread or dump materials. Bucket capacities up to 1½-cubic yards. Optional or standard Ford tractor features such as power steering . . . differential lock . . . foot accelerator . . . power-reversing transmission to ease operations.



New 42-inch narrow Ford skid-steer loader. Here's 800-lb lift capacity in a rugged machine designed for small-space maneuverability. The new 25-hp Ford CL-20 is the smallest of three Ford skid-steer loaders. Each offers 4-wheel-drive traction, smooth acceleration, easy spin-turns.

FORD TRACTOR OPERATIONS

Advertising Department CL2P
2500 East Maple Road
Troy, Michigan 48084

Please send me information on the following Ford equipment:

- | | |
|--|--|
| <input type="checkbox"/> Ford rear blades | <input type="checkbox"/> Ford hydraulics for precision landscaping |
| <input type="checkbox"/> Ford backhoes | <input type="checkbox"/> Ford industrial tractor loaders |
| <input type="checkbox"/> Ford low center of gravity (LCG) tractors | <input type="checkbox"/> Ford skid-steer loaders |
| <input type="checkbox"/> Ford rotary cutters | |

Name _____

Company _____

Street _____

City _____ State _____ Zip _____

Like more information? Mail this coupon. We'll send you descriptive sales literature on the equipment that interests you.

Circle 104 on free information card

Nonselective weed control

**American Cyanamid, Box 400,
Princeton, NJ 08540**

Cytrol

Combination of amitrole and ammonium thiocyanate. Liquid is applied at 2 to 4 gal. per acre mixed in 30 to 60 gal. water. Apply during active growth to annual and perennial weeds and grass. Contact action only. Keep away from water and livestock. Price based upon distributor.

Weed Killer 90

Same as Cytrol but in wettable powder formulation. Apply 2 to 4 lbs. per acre in 30 to 60 gal. water.

**Ciba Geigy, P.O. Box 11422,
Greensboro, NC 27409**

Princep 80 W

Wettable powder containing simazine. Long term control through root adsorption. Often used to control weeds under pavement. Rate is 20 to 50 lbs. per acre in an equal number of gallons. Water. Price is \$2.65 to \$3.15 per lb.

Princep 4L

Liquid formulation of simazine for long term control of vegetation. 5 to 10 gal. per acre of mix containing 1 qt. Princep per gal. water.

**W.A. Cleary Corp., P.O. Box 10,
Somerset, NJ 08873**

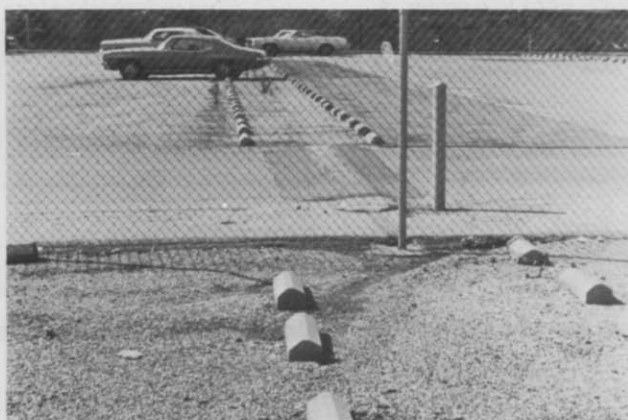
Diuron 4L

Emulsifiable concentrate applied at 4 to 8 gal. per acre in water for vegetation control on golf course paths, fence rows, and around buildings. Price set by distributor.

**Crystal Chemical Co., 1525 N. Post Oak Rd.,
Houston, TX 77055**

Broadside

Liquid containing cacodylic acid and MSMA for contact spray of brush and grassy weeds. Rate is 1 to 2 gal. of concentrate in 100 gal. water per acre. Price \$11.90 per gal. in 1 and 5 gal. jugs.



Herbicides are used before asphalt is laid to prevent deterioration by vigorous weed species.

Phytar 560

Liquid formulation of cacodylic acid for contact spray on rights-of-way, ditch banks, sidewalks, fences, etc. Rate is 1 to 2 gal. concentrate in 100 gal. water per acre. Price \$13.35 per gal. in 1 and 5 gal. jugs.

**Diamond Shamrock, 1100 Superior Ave.,
Cleveland, OH 44144**

Dalapon 85

Soluble dalapon salt which has contact and soil action with 1 month residual. Good control of foxtail and established perennial weeds in non-crop areas. Mix 15 lbs. of salt in at least 40 gal. water for one acre. Repeat spray after two to four weeks. Bulk price is roughly \$1.25 per lb.

**Dow Chemical, P.O. Box 1706,
Midland, MI 48640**

Dowpon C

Combination of dalapon and sodium TCA. Surfactant required. Dalapon has systemic action on plants. Apply 15 to 45 lbs. per acre in 100 gal. water. Price is \$1.72 per lb. in 15 lb. quantity and \$1.57 per lb. in 45 lbs. quantity.

Esteron 245

Liquid 2,4,5-T for control of woody plants. Not for use on turf or near water. Apply 1 to 3 gal. per acre in 100 gal. water. Prices range from \$24.83 to \$23.80 per gal. Also available for an oil mixture for basal bark treatment and dormant spray.

Esteron Brush Killer

Liquid combination of 2,4-D and 2,4,5-T for control of mixed growths of woody plants and herbaceous weeds. Rate is 1 to 4 gal. concentrate mixed with 100 gal. water per acre spray. Price ranges from \$18.90 to \$17.88 per gal.

Kuron

Liquid silvex (2,4,5-TP) for control of woody plants and weeds (not stoloniferous grasses). Rate 1 to 3 gal. concentrate in 100 gal. water or oil per acre. Also acts as aquatic herbicide. Can be used as dormant and basal bark spray. Price ranges from \$27.22 to \$25.38 per gal.

Tordon 101R Forest Herbicide

Ready-to-use liquid herbicide containing picloram and 2,4-D. Applied full strength to stumps and cut brush to prevent regrowth. One gal. jug cost \$9.60. Only picloram product not restricted use.

**E.I. Du Pont De Nemours Co.,
Biochemicals Div., Brandywine Bldg.,
Wilmington, DE 19898**

Amate

Soluble powder of ammonium sulfamate for control of woody plants and short term weed control. Two or three applications per year. Mix 60 lbs. powder in 100 gal. water per acre. Non-volatile and non-flammable. Comes in 50 lb. drums.

Continues on page 48

The Money Tree.



Big John Makes This a REAL Money Tree.

here's
why

- By far the *fastest* transplanter available.
- Largest tree "spade" on the market. 78" width handles 7000 lb. root ball! (But big as it is, it still meets standard road width limitations.)
- Starts returning investment immediately because of outstanding demand for the BIG tree!

If YOU would like to know just how profitable that money tree can be with a BIG JOHN, you'll want our prospectus of investment. That, plus a demonstration of BIG JOHN'S money making ability are yours at no obligation whatsoever.

86" and 50" BIG JOHNS now being developed, for information just call or write:




**big trees
today inc.**

Gerald Bredlau
5362 Clarice Circle
Stevens Point, WI 54481
Telephone (715) 341-2895

**Manufacturer's Representative for Big John Tree
Transplanter and Complete Line of Arborist Supplies**

Circle 142 on free information card

An in



Cylinder and crankcase
assembly of The Green
Machine 22.5 cc engine.
1.2 H.P. in a 6-lb package.
Over 5 years of field exposure
have helped create new standards
of 2-cycle performance.

The Green Machine trimmer-pruner-cutter. side look at a classic.

In 1972, The Green Machine introduced a gas-powered string trimmer employing a new concept—extreme light weight combined with amazing torque. It proved the ideal tool for high production weed and grass trimming, as well as brush cutting and tree pruning. From the start, Green Machines set new industry standards for quality—and new records for time-saving and money-making. The reasons are basic: ingenious design and a fanatic devotion to excellence.

For instance, The Green Machine



model 3000 engines have been dynamometer tested—at full throttle and full load—for 200 hours. That's equal to 600 hours of field operation. Actual field operation of 1000 to 1500 hours is common-place.

Chrome and hone

To understand what's behind Green Machine performance, just take a look inside a model 3000 engine.

You'll see a precision die-cast cylinder with polished chrome-plated bore—plus such refinements as piston-ported fuel timing and almost five square inches of scavenging. Running inside that chrome-protected cylinder, you'll see a precision die-cast aluminum piston, micro-honed and fitted with double,

positively-located rings.

You'll also see a crankshaft and rod assembly of high-carbon steel, precision-machined, and aligned to $\pm .001$ -inch tolerances, running with high-speed ball-type main bearings and needle-type rod journal bearings.

Easy starting with P.F.S.

Long engine life is a recognized Green Machine virtue. So is easy starting. Thanks to a proven, reliable fuel pump and carburetor design. Plus an important Green Machine exclusive: Positive Fuel Shut-off. Engine "kill" is accomplished by stopping the fuel supply to the engine, rather than by cutting the ignition. This means that all of the fuel in the carburetor and combustion chamber is burned off after each running.



Fresh fuel is used for each start. Conventional "ignition kill" allows the fuel and oil mixture to remain in the chamber and carburetor where it can become

stale and even, with time, create a residue that prevents starting.

Nine heads and blades

Green Machine introduced the first professional-quality Tap-For-Cord automatic string-feed head. A total of five different string trimmer heads are now offered as well as four quick-change blades.

A string trimmer...and more

The Green Machine is a great string trimmer—and a great brush cutter, and tree pruner. With accessory metal blades, one man can clear up to an acre of brush a day, cutting easily through vines up to $\frac{3}{4}$ -inch thick. Tree branches up to three inches thick can be sliced through easily—in a single stroke.

See what's in it for you

The Green Machine is saving time and making money for thousands of users in every field: park and municipal, high-way, cemetery, estate, golf course, institution, landscape, farm, school, rental yard. Crews equipped with little more than mowers and Green Machines are completing massive grounds-keeping chores in hours, instead of days. See what The Green Machine can do for your business. Contact your dealer or write for our new, colorful brochures. Take time now to look into a classic.

HMC, 22133
S. Vermont,
Torrance,
CA 90502



The Green Machine®

A yard-care classic.

Nonselective weed control

Du Pont continued from page 44

Hyvar X

Wettable powder containing bromacil for season-long weed and brush control. Very effective on perennial grasses. Mix 15 to 30 lbs. in 100 gal. water for handgun spraying an acre. Available in 4 and 50 lb. quantities.

Hyvar XL

Liquid formulation of bromacil for use diluted 6 to 12 gal. concentrate in 40 gal. water per acre or undiluted as basal spray for brush. Comes 1 to 30 gal.

Karmex

Wettable powder containing diuron for season-long control of weeds and as a soil sterilant. Rate is 20 to 60 lbs. of Karmex in 40 to 100 gal. of water per acre. Available in 4 lb. bags and 50 lb. drums.

Krenite Brush Control Agent

Contact herbicide liquid containing fosamine ammonium. Rate of 1½ to 3 gal. concentrate in 50 to 300 gal. water per acre. Apply in late summer or early fall for slow defoliation during winter. Can be used near water. Comes in 1.5, and 30 gal. amounts.

Krovar

Wettable powder containing bromacil and diuron for season long control of weeds. Rainfall needed for most effective use following application. Rate is 19-40 lbs. per acre in 40 to 100 gal. water. Comes in 5 and 50 lbs. quantities.

Velpar

Contact and residual herbicide containing hexazinone. Powder is dissolved in water and applied at 6 to 12 lbs. per acre for season-long control. Rainfall aids soil activation. Available in 4 lb. bags and 50 lb. drums.

**Elanco Products Co., P.O. Box 1750,
Indianapolis, IN 46206**

Spike

Total vegetation control herbicide containing tebuthiuron. Available in wettable powder and granular formulation. Soil residual of 12 to 15 months. Rate is 5 lb. acre and maintenance rate of 1½ to 2 lb. acre. Apply prior to heavy rainfall. Price suggested 50 lbs. box wettable powder \$536, 4 lb. box wettable powder \$43.75, 50 lb. of 1 percent granular \$29, 50 lb. 5 percent granular \$82.

Surflan

Wettable powder containing oryzalin applied prior to emergence of weeds around established ornamental plants. Rate 5 lb. acre applied as spray. Five lb. bag costs \$35.

**PBI Gordon, 300 S. Third St., P.O. Box 2276,
Kansas City, KS 66110.**

Vegemec

Emulsifiable concentrate containing prometon and 2,4-D acid. Season long control of most annual and perennial broadleaf weeds and

grasses. Mix 1 part Vegemec with 8 parts water and use large droplet spray. One gal. concentrate will control vegetation in a 900 sq. ft. area. Available in 1 and 5 gal. quantities. Price \$8.70 for single gal. and \$8.15 per gal. in 5 gal. size.

**Monsanto Agric. Products Co.,
800 N. Lindberg Blvd., St. Louis, MO 63166**

Roundup

Liquid contact herbicide of glyphosate with no residual activity. Application should be made at proper time which varies among plants. There must be enough green foliage and metabolism should be on a down turn. Mix 2 to 5 qt. in 20 to 60 gal. water for one acre spray. Available in 1 and 5 gal. containers. Price is \$66 for single gal. and \$64 per gal. for 5 gal.

**Occidental Chemical Co., P.O. Box 1185,
Houston, TX 7701**

Borocil IV

Water soluble granule containing sodium metaborate tetrahydrate and bromacil. Provides season long control of annual and perennial broadleaf weeds and grasses. Spread ¼ to 1 lb. per 100 sq. ft. Fifty lb. bag costs \$40.

Hibor C

Granular nonselective weed and grass killer containing bromacil, sodium metaborate tetrahydrate, and sodium chlorate. Apply 1/5 to 1 lb. per 100 sq. ft. Single application per season. Price is \$47 for 50 lb. bag.

Monobor-Chlorate

Granule providing 3 to 4 month control of grasses and weeds. Apply ½ to 4 lb. per 100 sq. ft. Must be watered in. Fifty lb. bag cost \$18.50.

Monobor-Chlorate D

Same as monobor-chlorate with diuron. Same application lasts 8 or 9 months. Fifty lb. bag costs \$23.75.

Ureabor

Granule containing sodium chlorate, sodium metaborate tetrahydrate, and bromacil lasting for a complete season. Can be mixed with water (1-3 lb. per gal.) and used as spray. One gal. of solution will cover 100 sq. ft. Should be watered in. Fifty lb. bag costs \$27. Best applied prior to or just after emergence.

**Ortho Div., Chevron Chemical Co., 575 Market St.,
San Francisco, CA 94105**

Diquat

Contact herbicide and desiccant for industrial and aquatic weed control. Contains 2 lb. diquat per gal. Rate per acre is 1 qt. plus 4 oz. spreader in 50 gal. water. Label permits only use of Ortho Spreader X77 at \$12.55 per gal. For smaller jobs, 4 tspns. diquat plus ½ tspn. spreader in 1 gal. water. Price is \$50.50 per gal. in 1 to 54 gal. containers.

Continues on page 53

Solving irrigation and sprinkling problems takes a real Bird Brain.

For 45 years, the Rain Bird Brains have feathered the contractor's nest with everything he needs.

From trickle irrigation to automatic sprinkler systems. From pipe to fittings — even complete service facilities.

And plenty of sound advice.

So whether you're out on an irrigation limb, or just tired of squeaking by on a wing and a

prayer, give your local Rain Bird distributor a call.

He'll show you why, since 1933, the best solution to your irrigation and sprinkling problems has just been a matter of using our heads.

RAIN BIRD®
Bringing new ideas to life.

7045 N. Grand Avenue, Glendora, CA 91740

If you've got a problem only a Rain Bird Brain can solve, stop by any of these fine-feathered friends:

Rain Bird Master Turf Distributors

Arizona

ARIZONA TURF EQUIPMENT & SUPPLY CO., INC., (ARTESCO), 1429 E. Hadley St., Phoenix, AZ 85034, (602) 257-0151
CARLSON'S UTILITY SUPPLY, INC., 3670 E. Speedway, Tucson, AZ 85716, (602) 325-3369

California

A-1 TURF IRRIGATION SALES, INC., 827 N. Main St., Orange, CA 92668, (714) 633-3214
Also in Gardena and Canoga Park

AUTOMATIC RAIN CO., P.O. Box 2226, Menlo Park, CA 94025, (415) 323-5161
Also in San Jose, San Rafael,

Concord, Salinas and Santa Rosa

INDIO PIPE & SUPPLY, 81-245 Highway 111, Indio, CA 92201, (714) 347-0968

KERN TURF SUPPLY, 711 Lake St., Bakersfield, CA 93305, (805) 327-4048

NOR-MAC, INC., 3418 Auburn Blvd., Sacramento, CA 95821, (916) 482-2924
Also in Chico

PACIFIC PRODUCTS, 8901 Fletcher Pkwy., La Mesa, CA 92041, (714) 463-5561
Also in Carlsbad

RAINMAKER PIPE COMPANY, 1011 E. Lindsay St., Stockton, CA 95201, (209) 944-5721
Also in Modesto

SMITH BENNETT CO., INC., 16300 Raymer,

Van Nuys, CA 91406, (213) 988-3222
Also in Santa Monica and Ontario

SMITH PIPE & SUPPLY, 772 Rancho Conejo Blvd., Newbury Park, CA 91320, (213) 889-2593
Also in Oxnard

VALLEY TURF SUPPLY, 1408 N. Cedar Ave., Fresno, CA 93703, (209) 251-8223

Colorado

CPS DISTRIBUTORS, INC., 560 South Lipan St., Denver, CO 80223, (303) 744-6371
GRAND JUNCTION PIPE & SUPPLY, 2870 Freeway East, Grand Junction, CO 81501, (303) 243-4604

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PARADISE SUPPLY, 1075 S. Beretania, Honolulu, HI 96814, (808) 524-6633

Idaho

BOYD MARTIN COMPANY, 4554 Chinden Blvd., Boise, ID 83704, (208) 376-8891

Nevada

RECORD SUPPLY, 315 Record St., Reno, NV 89505, (702) 329-1741
TURF EQUIPMENT SUPPLY CO., 3558 Procyon Ave., Las Vegas, NV 89103, (702) 873-2468

New Mexico

SPRINKLER IRRIGATION SUPPLY COMPANY, P.O. Box 6933, Albuquerque, NM 87107, (505) 881-4050

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AUTO-RAIN, 10115 N.E. 6th Dr., Portland, OR 97211, (503) 283-4184
RAIN SYSTEMS IRRIGATION SUPPLY, INC., 252 Taylor St., Eugene, OR 97402, (503) 484-0315

Utah

BOYD MARTIN COMPANY, 1260 West North Temple, Salt Lake City, UT 84115, (801) 521-7202



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If the price what's the bi

Cushman makes a fine turf vehicle. But does it equal E-Z-GO? It's often difficult for you yourself to make an honest comparison. So we've done it for you. We took comparable top-of-the-line models, E-Z-GO's GT-7 and the Cushman Turf Truckster. Head to head, here's what we found.



Power Source: 18 horsepower OMC engine, tightly compartmentalized.
Ground speed 0 to 22 mph.

Braking: Hydraulic internal expanding.
Payload: 1000 pounds.

Suspension System: Torsion bars, leaf springs, front and rear shocks.

Dump Construction: Single wall, no undercoating.

Headlights: Single.

Seating: Single seat for one passenger with back rest and hip restraint.

Price: Virtually the same.